197-5

Martin Landa St. 5 6 7 8 9 6 manufactur de la constant de la const

A

LETTER

T

THE RIGHT HONOURABLE

LORD VISCOUNT MELVILLE,

ON THE SUBJECT OF

HIS LORDSHIP'S LETTER

то

THE RIGHT HON. SPENCER PERCEVAL,

RESPECTING

A NAVAL ARSENAL

AT

NORTHFLEET.

BY THE RIGHT HON. GEORGE ROSE.

LONDON:

PRINTED FOR T. CADELL AND W. DAVIES, STRAND,

[Price 1s. 6d.]

and the so A to LETTER, or &c. lead to the

and all breakhilomas bair is the fig. Modelland inhibe for the complete party of chicken in

Belgrap, which have of traininged belocked of of equal ordination of the second of th

and it has on a like you be well bed proceed it is about annight to probrach higher at his logisticache as

MY LORD,

IN making this address to your Lordship, I have not the remotest intention of entering into a controversy with you in consequence of your letter to Mr. Perceval; to which I should feel myself very unequal in every respect, even if the ground of the difference of opinion between us on the subject was much wider than it is. In truth that difference is more in degree than in substance, for if a new Naval Arsenal must be provided to the eastward, I am persuaded a better situation than Northsleet cannot be found; from its easy access to the Nore, and being free from the difficulties of the upper part of the river.

Some explanation is, however, necessary for my prefuming to address you on a matter out of the line of my general pursuits in public business, especially

upon

topice so to a include their.

deligi deligiós apatron sá rey d'il

le liger folk blegadt i deblwek i b

ं रेजिस्ट्रेस्ट्रिकेट स्टेंड्, के सर्वात स्टेक्ट्रेकेट ४ व

งได้ อุดีราคยาวัตรายขอ<mark>งสระบำหนัก</mark>สรุโด

the man than of the man control of

्रितार है। इस अपने विकास हिंदी विकास है। एक स्तुति

the table of laborated these es planete minuell geroe e le

Strahan and Preston,

upon one on which you have had opportunities that could not escape you in official fituations, of informing yourself to the best advantage: and I cannot hope to be excused for doing so on a better ground than by stating, that after last Christmas Mr. Perceval fent to me in the country an abstract of the 15th Report of the Commissioners for Naval Revision, made for the purpose of drawing his attention to the feveral points in it, which were conceived to be the most important for his confideration. Unwilling to withhold the paper from others infinitely more likely to give ufeful advice upon it than myfelf, I fent it back by the return of the post, and in a few days afterwards communicated to him the following observations. Having then recently confidered most attentively the extent to which our expenditure had grown, I will fairly own, I made them under the influence of a firm persuasion of the absolute necessity of reducing that in every practicable way not inconfiftent with our fafety: and I think it defirable to give these suggestions in the state they were offered at the time, to avoid as carefully as I can even the appearance of going out of my way to differ with

your Lordship.

3)

Cuffnells, January 6th 1810.

If it could be fatisfactorily proved, that there is an indispensable necessity, or even a pressing urgency, for the Naval Arsenal at Northsleet to the extent proposed, the amount of the expence likely to attend it should not, I think, prevent the adoption of the measure; because unquestionably the maintenance of our naval superiority must be paramount to all other considerations whatever. But on the other hand it may safely be afferted, that there has been no period in our history when there existed stronger reasons for carefully avoiding every charge not essentially necessary for the safety of the country.

It is therefore incumbent on those who are most immediately intrusted with the public purse, to examine with the most diligent attention any plan that may be proposed, which is likely to occasion a considerable expenditure; and it can convey no resection on the distinguished Nobleman at the head of the Commission for Naval Revision, than whom I know not a man more eminent for skill in naval matters, or more to be respected for unbiassed integrity and unremitting zeal in the public service, or on the other commissioners, to

fuppose it possible in this instance, that they may not have been aware of the infinite importance of such an examination. Under a strong impression of the great utility of the measure, they have very naturally brought forward every consideration likely to instuence the minds of others.

What the cost of the whole of the works proposed at Northfleet would be, is, I think, not stated in the abridged account extracted from the report; but the expectation held out by the commissioners cannot have been much less than 6,000,000l., as they fay that the expence of the measure will be compensated by the savings in the first fifteen years, amounting to 5,900,000l.; and confidering how infinitely the real charge exceeds the estimate in all cases of this sort it is not likely that the whole work, with the extensive fortifications necessary for its defence, in a fituation more exposed than Chatham, would be completed for a fum lower than 10,000,000l.; for whatever difference of opinion has prevailed about fortifications, there never was one expressed by any authority against effectual protection for our great Naval Arfenals. The fum above(5)

above-mentioned will therefore not be thought an extravagant conjecture; for which taxes must be found for nearly 600,000l. a-year.

in a some with the confidence

The advantages that would attend the introduction of the use of mechanical powers to perform work in our dock yards, now done by the hands of men, are unquestionable; and it has long been a matter of surprize to me that it has not been much earlier considered, how far that was practicable in the present yards; as we have seen mechanical engines, especially those worked by steam, applied for the abridgment of labour in almost every private establishment of magnitude in the kingdom; by the use of which the articles manufactured have not only been furnished at a much less expence, but have been improved in quality. The convenience and economy of railways, for carts, &c. to move in, is equally evident.

I am ready to make an admission also to the projecters of the plan (without knowing the fact), that great advantage would be derived from building all the large ships of war, and making the whole of the cordage, and perhaps the anchors, in His Ma-

energia del presidente esta en la constanta de la constanta de la constanta de la constanta de la constanta de

jesty's yards; but I am inclined to think it would by no means be advisable to introduce manufactures of canvas there, about which I shall say more before I finish this paper.

ki kunganga **pinab**agai ki kabanan kabangai kaban da 1970.

That the attainment of the objects on which there is no difference of opinion, could be infinitely better provided for in a new Naval Arfenal of sufficient extent than in the present yards, not only on account of the additional space that would be acquired, but by making all the arrangements of the buildings most advantageous for the application of machinery, it would be absurd to deny; but the point for attentive consideration is, whether the superior benefits that would be derived from the new Arsenal are sufficient to justify the unavoidable expence that would be incurred.

Other circumstances are, however, stated by the commissioners to induce the adoption of the plan.

- हुम्<mark>वक्रम् अस्ट्रे</mark>तिहे एक दिले त्रोता वार्ट के विकास क्राप्त के प्राप्त कर है

र हा हुन्हें के हार के लाह के देखा है। के किए के के किए के के का किए के किए के किए के किए के किए के किए के किए

The want of fufficient depth of water at the present dock-yards; an inconvenience stated to be rapidly increasing.

- improper fituations in which they are placed.

(7)

infufficiency of them to maintain the navy on its

- want of space for ships in ordinary.

— decline of the dock-yards; the means of naval fuperiority being thus lessened.

necessity for our building ships with their lower deck-ports close to the water, while the enemy builds his high out of the water.

— distance at which the ships are from the yards, which affords opportunities for embezzlement; expence of crast, &c. &c. &c.

In fuch a case as the present I should justly incur the imputation of great presumption if I were to do more than recommend that opinions offered by men of the highest professional character, should be considered before a measure which must be attended with a most enormous expence is adopted.—I repeat that it is perfectly natural they should propose such a measure, impressed as they are with its importance. The point I wish to press for attention is, whether material parts of it cannot be obtained in the present yards at a limited expence, though not to so great advantage as in a new Naval Arsenal; and whether the urgency is quite as great

for that proposed as the zeal of the commissioners for the improvement of the navy has induced them to represent.

With respect to laying cordage by machinery, and highly useful work, and I believe the most important of those proposed to be done by steam, both as to reconomy and the improvement of the article; I have a perfect conviction, formed on no light ground, that sufficient room may be found for it in the present yards; and in many of them it seems probable machinery might be erected for all the other purposes suggested except the manufacture of canyasource in this is about the manufacture of

The forming railways to a confiderable extent cannot be difficult, though not to fo much advantage as if the buildings, &c. had been constructed with a view to them.

timed there, and went for figure titles before the

The inconvenience, stated by the Commissioners to be rapidly increasing, of an insufficiency of the depth of water in our dock yards is a most serious evil. It is I believe not felt at Plymouth, where ships of any draft of water can enter the harbour and be docked; and equal convenience has been afforded

(9)

by modern improvements, as far as respects the docks at Portsmouth; at the latter it is not the depth of water in the docks, or in the harbour, that is complained of, but the bar near the spit at the entrance of the harbour:—an inconvenience, I admit, nearly as great as shallow water in the docks or harbour would be, unless it can be removed; the practicability of which has probably not escaped attention; notherwise it certainly ought to be confidered.—At Sheerness no ship larger than one of 64 guns can be docked, but at Chatham first rates may be taken in. The objections to the yards at Woolwich and Deptford sarife principally from the want of water in one or two of the reaches above Gravesend, Erith in particular.*. And here may arise two questions for consideration, 1st. Whether the shoal in Erith Reach can be re-

^{*} As high as Long Reach, vessels of any draft of water may be navigated with perfect safety; but ships of great draft are lightened there, and wait for spring tides before they go higher up. The large Indiamen draw 23 or 24 feet, within a few inches of a seventy-four gun ship. The depth of water in the stream of the Thames continues nearly the same, (though the shores are covered with mud) by the exertions of the Trinity House, who take up above 300,000 tons of gravel yearly from the bed of the river, but the collection of mud there is about equal to that: in particular spots, however, I believe the depth has been somewhat improved.

moved, and at what expence; and, 2dly. If that should be found impracticable or too expensive, what the charge would be of making a cut from Purfleet to Blackwall, sufficiently deep for ships of the largest draft of water to pass through. The latter question is the more important, as it is of great confequence to the trade of the capital, as well as to the naval yards in the river; fuch a cut has been in contemplation, and if it could be undertaken, it is probable the expence either of that, or of deepening Erith Reach, might be defrayed by a charge on the trade of the port, which would be compensated by the saving arising from avoiding delays, frequently very expensive and inconvenient: in either of which cases the yards of Woolwich and Deptford might perhaps be enlarged and rendered more useful. राज्ये हाल महीन है उसे हैं।

The confideration next in importance to the obtaining deeper water at the entrance of Portfmouth Harbour and in Erith Reach, is the capacity of the prefent Yards for the building and equipment of ships for the navy; having already referred to the practicability of erecting machinery in them. In this part of the subject-it is proper to take notice of (11)

the observations of the Commissioners, where they speak of "the decline of the dock yards;" the means of naval superiority being lessened; the the want of deep water at the present yards income pelling us to build ships with their lower deck ponts "close to the water, while the enemies build theirs high out of the water;" and of "the insufficiency of the dock yards to maintain the navy on its present sentenced scale."

On reading what the Commissioners say on these points, without the remotest intention, I am perfuaded, of exaggeration; but infenfibly carried away by their zeal for improvements, a person quite new to the subject would be disposed to think that no endeavours had been used for making improvements in our Naval Arfenals, to keep pace with the increase of our navy: whereas at Portsmouth alone, 23 acres have been added lince the end of the feven years' war in 1763; that yard now containing 100 acres; in the new part of which are flips for building three ships of the largest fize, and two for small ships. In Sheernels yard fome additions have been lately made, the extent of which I do not know; nor am I apprized of what improve-15,8984

improvements have been lately made at Chatham, but those at Plymouth have been very complete. With the certain knowledge, however, of the very extensive improvements at Portfmouth, of some at Sheerness, and observing no neglect at Woolwich and Deptford, I am not aware of what the Commissioners allude to, when they speak of the decline of the dock yards, and the means of our naval superiority being lessened; especially as the additional convenience that Portsmouth, provided within the last 40 years, is not confined to building ships. The great basin there has been deepened and enlarged; the middle dock, fouth dock, and fouth east dock, in the great basin, made new; the four jetties have been enlarged; the north basin deepened and enlarged; the channel leading to the basin formed into a dock for frigates, and the entrance formed into a lock for receiving a ship occasionally. When it is considered likewise. that within the same period, the coppering our men of war has come into general use, which prolongs the thine very confiderably during which they can continue affoat without being docked, the provision made for docking them should be reckoned as two or three fold.

third-rates we can make the compa

Difficult

(13)

Difficult as I find it to understand the allusion of the Commissioners to the decline of our dock yards, I am much more perplexed to discover the foundation for their observation, that we are compelled to build ships with their lower-deck ports close to the water, while the enemies build their high out of the water. On professional points I should not presume to enter on any reasoning with men of such distinguished eminence as the naval officers in this commission; but I may venture to refer to facts.

Of first-rates I have not the means of making a comparison between the French and ours; I believe indeed we have not now a French ship of this class in commission; but the Spaniards have long been supposed to build as fine ships of war as the French; with those the comparison stands thus; a Spanish and an English ship of the same class, are lying along-side each other at Spithead at this time:

Height of midthip ports

out double process of the water.

Brifish. Caledonia 1- 120 Guns 5 6

Spanish San Joseph Lead TIA Guns 201 321

Of third-rates we can make the comparison between the English and French.

British

| to remaile see handreine or thou an Height above the midship port. | |
|--|------------|
| ngo gori converso, chia a Cuns Reet, inches. | 3 |
| British. Milford 74 Guns 5 4 Denoitemn; Revenge 5 3 | Ž |
| nii ni sous Ajax mit motorinida di 15 17 noi: | / : |
| 100Flench Tigre * 5 5 74 Guns 4 33 0 | 3 |
| Impetueux Implacable Implacable 5 8½ | |
| Donegal locality (Company) | 1,2 |

The draft of water of the foreign men of war is in a small degree greater than in the British; but it is clear that that is not necessary to the ships having their lower ports high out of the water from the above instances.

It is next fit to confider whether such a difference as does exist between the draft of water in British and foreign ships renders a new dock-yard necessary.

| HON WAY | Load Draft of Water |
|------------|--------------------------------------|
| British. | Caledonia 120 Guns 26 |
| | Milford 74 74 74 76 24 76 |
| 4 - 10 - 1 | Revenge 74 24 6 Ajax 74 23 3 |
| - AF SIBOR | Ajax 23 3 |
| or diller. | Majeftic 74. |
| Foreign. | Majeftic 74 23 9 San Joseph 114 27 1 |
| reds shed | Tigre * 74 25 4 |
| on Burto | Impetueux 74 |
| | implacable 74 24 0 |
| donar aig | Donegal Torre 74 Live Vanib 24 4 |

^{*}This French ship, drawing the most water of any in the same class, appears to carry her lower-deck ports nearer to the water than the others.

Having

(35)

Having before established the fact, that a greater draft is not necessary to a ship carrying her guns high out of the water, it is from the last mentioned statement certain that the greatest difference in the draft of water is in a first rate 13 inches, and not more in most of the third-rates; in some cases in the latter no difference can be insisted on.

the drain of its and confiquency or men of the I am next led to advert to provision being made for laying up fhips in ordinary in time of peace; of which I admit the necessity; but a question upon this naturally arises. Whether in consequence thereof the incurring the heavy expence of making wet docks or basins of sufficient capacity for the purpose, is unavoidable? Or whether space may not be found in the vicinity of the prefent dock yards? In confidering which, when it is admitted that a basin is much more convenient than a river for laying up ships, as the expence of moorings and boats are thereby faved, and the ships are in a state of quietness, it must at the same time be recollected, that the danger from accidental fire, or the destruction by an incendiary, or from a bombardment, is much greater in the former than in the latter fituation. I have understood that in the Medway, at least double grinodyski olici bi opribodni sa glibili

the number of ships may be moored than ever were laid up there, as there is fufficient depth of water for them between Gillingham and Standgate Creek; and in the latter I was informed, when last there, moorings might be laid down for eight or ten, as the Lazarette on shore is now in use. In the Southhampton river, emptying itself into the sea within the Isle of Wight, and confequently smooth water, there is a space above Calshot Castle of nine miles, in a great part of which, moorings might be laid down for large thips. In the Hamble river, emptying itself into the Southampton river, there is a space of four miles between Burfledon (where 74 gun ships are built,) and the mouth of it, equally convenient for thips of a fmaller fize; and in the Beaulieu river, close to the Southampton water, there is a confiderable space between Buckler's Hard (where also 74 gun simps are built) and the mouth of the river. Of additional accommodation in the neighbourhood of Plymouth I cannot speak confidently, but I have been affured that it may be obtained in different branches of the Tamar.

s proffing it very that durings to not work Without deciding upon the comparative advantages and risks between ships being laid up in basins, and their lying at moorings in fafe harbours,

(17)

and still rivers, it may be observed, that the latter practice has prevailed from the earliest period of our naval history, and we have not heard of mischiofs refulting from it.

to their destrict at Electron of Summary unribonic

The argument used by the Commissioners, of our. present ports being on a lee-shore, as applying to Portfmouth and Plymouth, can have reference only to the Arsenals being on the most inconvenient sides of the harbours, because the opposite shores of the Channel belong to the enemy; which circumstance may make it a little more inconvenient for ships to get out of the harbours, but can occasion no material delay; and however prevalent the wind from the westward is, I believe it does not often happen that a ship could go down the Channel from a French, when she could not do so from an English port on the opposite coast; but if I am mistaken about that, it would not affect the present question for the reason above-mentioned. Applying the objection to a leeshore, to the extent of preferring one side of the river Thames to the other on that ground, feems to be pressing it very far; but this is not worth entering apolication with stores with the world with The graduated appreciate the desired

The

affords opportunities for embezzlement, must apply principally to Deptford and Woolwich. At all the

other yards the ships lie within a trisling distance from the jetties and wharfs *; and even at those in the

river Lapprehend all the small stores of the Boat-

fwain, Gunner and Carpenter, such I mean as are capable of being plundered, might be put on board

from the yards without bringing the ship down one inch in the water; and the delay of delivering the

remainder in Long Reach, cannot be confiderable, unless in very bad weather, as the Hoy which carries

them will always get down in one tide. The expence

of employing craft: on such service, stated by the Commissioners, appears to be too trisling to deserve

attention, and an many to an year of bene-

The fituation of the yards of Portsmouth and Plymouth, it is conceived, are as good as can be

found

(19)

found for channel or foreign fervice, except Falmouth; where at some time it may be desirable to provide convenience for making that harbour a rendezyous for line of battle ships, which, I believe, might be done at a very moderate expence. To this place, however, I am aware objections have been made; applying to the narrowness of the road for mooring ships of the line in fafety; to their getting out with the wind from fouth-east to fouth; and to the danger from the Manacle rocks, which lie about feven or eight miles from the harbour's mouth. To all which I have in my possession answers which appear to me to be perfectly satisfactory; and I have likewise a list of 656 ships and vessels in His Majesty's fervice, of which 69 were of the line and 83 frigates, that arrived at, and failed from Falmouth, from 1808 to 1808, without an accident having happened to any one of them. In the latter part of Mr. Pitt's administration, enquiries were made by skilful men as to the use that might be made of this port; and the refult established the certainty that it might be rendered highly advantageous to the naval fervice of the country. I have dispositive for the country. anished most squit agree the interest con society

itores close to the yards; although their gue

Chatham and Sheerness are well fituated for the North Sea, as to equipment; in the former of c 2 which

^{*} At Portsmouth the shoal water at the entrance of the harbour does not prevent the large ships from taking in their heavy stores close to the yards; although their guns may not be taken in till they get to Spithead.

which large ships may be built and receive thorough stand has sent woll of him the river are used for building of stand took in the river are used for building large thips, and ging thorough repairs to frigates. If the arlenal at Northseet should be erected, I apprehend its principal use (exclusive of containing the ships in ordinary,) must be to supply the defects of the eastern yards; it cannot answer for docking and fitting ships for the westward, on account of the length of time usually occupied in ships going from the Nore to Spithead or Plymouth, for which different winds are necessary.

That thips will be fixed in the new yard in half

When the Commissioners say that a ship may make that passage with any wind, they must mean,

It is not improbable that a ship might go from Plymouth to the West Indies, while one was getting from Gravesend to Plymouth; the supposition is not extravagant in the case of a large man of war: the advantage of the Western ports for docking, small repairs and sitting, for all services except the North Seas, is therefore incontrovertible. A sleet alled from Portsmouth for soreign service, the same day that Colonel Crawfurd sailed with the force under his command to South America, from Falmouth; and accounts were received from him to the southward of the Line, on the same day that the Portsmouth squadron sailed from Plymouth; which port only they could reach, while the other crossed the Line, and a ship came from there to this country. This will appear the less surprizing; if the prevalence of westerly winds in the Channel is considered.

I fup-

I suppose, as far as the Downes, and that only in moderate and settled weather, (not much to be relied on misther watter leason,) owing to the intricacy of the navigation: from the Downes they cannot go downethe Channel with a westerly wind.

I come next to fome politions of the Commiffioners, which I am under a confiderable difadvantage, as the ground on which they rest is not stated in which Abstract.

1. That ships will be fitted in the new yard in half the times and at half the expence now incurred.

acut winds are moceffer a

them to be used again; which at present is feldom the confer mond of them to be used again; which at present is feldom the confer mond on a series one which indies.

On these two points it would be unfit to make any comment; till the reasons in support of them shall be seen in the Report: I will only say in the mean time, that I should think it difficult for much greater expedition to be used, than I have been an eye-witness of at Portsmouth; I and belief northways through the mean and the seen and eye-witness of at Portsmouth; I and belief northways should be not so brown and eye-witness of at Portsmouth; I and belief northways should be not so be not so and the second and the most solution.

3. Officers would be soonendet free when ships are paid off.—A ship being unrigged in a basin, might

Thus far for the advantages expected to be derived to the navy from the new Naval Arfenal.

The faving to be effected by it is estimated at 5,990,000l. in the first 15 years, and an equal sum in every 15 years afterwards; to arise from—

Building ships in the King's yards, instead

Of by contracts with private builders,

By making cordage and canvas

Argonal material to the contract of the property of the pro

The particulars in support of this estimate are probably detailed in the Report; I will, therefore, suppose the amount accurately stated in the paper sent to me. But in that case it would not be in my mind, as at present advised, an indusement to adopt the proposed measure; because I believe if workmen could be found, there is sufficient accommodation in the King's yards for building the requisite number of ships.

(23)

The Commissioners favother the number of ships of the line and of so guns, including those wilt in the King syards, Merchants syards, and dtaken from the enemy in the 18 years previous to this Report, which were fufficient to carry our navy to its then flourishing state, amounted to 100; and as we have 20 flips in the prefent dock-yards for ships of the line, the whole number necessary might be built in those, allowing each to be more than three years in hand, which must be admitted to be a reasonable time for seasoning. If there are not already fufficient flips in the King's yards for frigates, I suppose more may be provided. How far it would be practicable to get a fufficient strength of artificers for carrying on the whole of the new work, and for the repairs of the navy; or if that could be accomplished, how far it would be prudent to engage fo much larger a number than could be employed in peace, I will not take upon me to fay. I remember when the Pegafe was taken by Lord St. Vincent in 1781, it was reported that the was built in 70 days. That was perhaps not true; nor, if true, is it meant to fuggest that it would be expedient to attempt to follow fuch an example; as I have always understood that one certain advanbuilt more quickly in merchants' yards.

The laving on Cordage might be made in the present yards, nearly, if not quite, to the whole extent, as in the new Arsenal; if I am right in supposing that machinery for that article might be erected in these.

occurred to me therefore, against it, excer

(25)

tory, would alone be a great evil; and to prevent mischief therefrom, much of the time of the sugarior officers would be taken up, interfering with their more important avocations of building, repairing, &c.

These are the reflections which have occurred to me fince I read the paper fent to me; till I read that, I never heard the measure spoken of, except loofely, as one to which it might be expedient at some time or other to resort; no other reason occurred to me, therefore, against it, except its enormous expence. In fuch a case, the arguments in support of an opinion, formed to a certain extent, without a due examination, should be ferutinized with at least the fame feverity as those stated in support of one, conceived by the party proposing it to be of great utility, without having duly reflected on all the difficulties attendant on its adoption. Many of mine may be found to be erroneous or irrelevant. I feel my inferiority of judgment on the Judgect to that of the framers of the Report very strongly, and most unaffectedly: more especially as it is said to be fupported by the authority of feveral gentlemen of

^{*} Such manufactures might afford excellent employment in the naval schools, which I have long felt anxious for the establishment of.

(27)

the future probable increase of the improvements; so that as the present buildings shall decay, box may be gradually taken down, new may be drected in such situations as, in the end, to render the whole complete.

speriority drongly impached on my mind The expense of fuch furveys would be inconfiderable, and one year only would be loft. If the refult should be a complete adoption of the Northfleet plan, the person proposing it would go to Parliament with a much better fanction than the recommendation of the Commissioners for Naval Revision, highly respectable as their authority sis. The throwing down great and extensive buildings in two dock-yards, as proposed, which have been erected at an immense expense, and fetting up others on a new fpot of ground, even if the charge to be incurred should be only one half of what has been stated, would furely require much deliberation, if the resources of the country were as abundant as they ever were. Of these I do not mean to speak with despondency; with proper management I am perfuaded they will carry us through all our difficulties, whatever their duration may be.

^{*} Mr. Rennie, Mr. Huddart, Mr. Mylne and Mr. Jeffop.

I have not entered on the question alluded to by the Commissioners, respecting the comparative seggnomy, between talk work and day-pay, because, as far as the former can be adopted, it may be as eafily done in the old yards as in a new one.

a extreme inconvenience in point of

The only other point touched upon in the abstract, and that but slightly, relates to Milford Haven; but as the building ships there is suggested, I cannot refift recommending that fome enquiry may be made before any establishment is fixed for that purpose; the convenience of such a one can hardly arise from an abundance of timber in the neighbourhood; as I remember to have heard, that by far the greater part used for the construction of the Milford of 74 guns built there, was fupplied from the forest of Dean; which would otherwife have been carried to His Majesty's yard at Plymouth. As a port for ships of war to refort to, except a few on the Irish station, I suppose it has feldom been used, except by ships putting in accithe inflant of my reading the papyllstaph

lifim and acknowledging as I do that

I well-remember the late Mr. Greville labouring incessantly during twelve years to obtain a naval esta-Syx 3 I blishment 29)

blishment there; but he failed in that, though he fucceeded in two other schemes for the benefit of the port; in one of the cases, at a great and lisselfs. expence to the public. Authrong folicitation was urged even to make it a tobacco portanotwiff. standing its extreme inconvenience in point of fituation for importing and exporting, and that there is but little home trade near it. ous shoulds

Haven; but as the building flisps there is fuge

If thefe very superficial remarks, hastily made, shall contribute in anylidegree towards inducing you to confider the whole subject attentively, and to avail yourfelf, withour delay, of the belt advice you can obtain as to the practicability of improvements in the prefence yards, and the extent to which thele can be carried; I shall think my time has not been plied from the forest of Dean; which wbsyddma Ili

wife have been carried to its Majelly's ye Tymouth. As a past fee thing of war to ref scept a few on the lish flation, I suppose

THESE owere the observations made to Mr. Per. ceval at the instant of my reading the paper series to me by him; and acknowledging as I do, that there is much force in your bordship's statements, and in the arguments in support of them, I am

com-

yard

yard as it now is, that it may be afcertained what steam-engines can be erected, and other improvements made for the works to which they are suited in the dock-yards; and that they may be arranged in such a manner, as to admit of their benefits being extended, as the further increase of the yards may require.

With the aid of fuch furveys, well digested defigns for the future enlargement of the Arsenals may be prepared, with a view to their gradual improvement, so that as the present buildings decay, new ones may be erected in such situations as in the end may render the whole complete; from the want of which, I am asraid some of the buildings lately erected in the dock-yards, have not been placed to the best advantage.

It was an alarm at the expence of the undergataking, that led me to step out of my line, to submit advice to Mr. Perceval. Concurring with your Lordship, as I do entirely, that the country can never be served by a government of uncontrolled departments," I thought it important that he should satisfy himself of the necessity of an immense expence being incurred, before he should

^{*} Even for the works necessary for a dock-yard, as suggested in p. 47, in your Lordship's letter.

⁺ See p. 26, of this tract.

If I am right in supposing that all the machinery necessary for the several purposes wanted, may be erected in the present yards, and that there are slips sufficient in them for building all the line-of-battle ships, the articles of saving will be reduced to the doubtful one of building frigates and smaller vessels;

the

a mineralizant garakery ested endle to modulo say.

(33)

the mooring chains, and the charge for the men in ordinary, whose wages would be saved by the ships being in a basin, instead of in a river or harbour. Some misconception must have prevailed, I think, about the plunder of stores; no new protection against which at the great ports of out sit has been thought of. In the instances your Lordship mentions of eight months' sea stores having been consumed before the ships left the Nore, the gross corruption of the officers must have been notorious, and it must be hoped was most severely punished, as a warning to deter such manifest delinquency in others.

On estimating the saving arising from a great number of ships of the line being laid up in a basin,

^{*} This fact furely deferves a most minute investigation, to have it ascertained whether the stores alluded to were actually plundered, or were articles that had been worked upstores ship's use; this is the more important, as the charge refers to more than one case. Mr. Colquhoun, whose authority is quoted, states the plunder of stores in the yards at Portsmouth, Plymouth, and Chatham at 700,000l. a year; and as he supposes the value of those in the former to be greater in amount than the other two, his estimate of the plunder at Portsmouth, alone must be nearly 400,000l. annually, where now, at least, there is as much vigilance as in any merchant's warehouse! And in the Thames, he mentions some river-pirates weighing a ship's anchor off Rotherhithe, in the night, with which they actually rowed away in the presence of the captain; telling him what they had done, and wishing him a good morning!

fome allowance should be made for the charge to be incurred for keeping it in repair. Other considerations, indeed, of a much higher nature, should also not escape attention; to which I have slightly alluded in my paper to Mr. Perceval, namely, the danger of fire from accident, or from an incendiary; nor should we exclude from our mind attempts that may be made by an enterprizing enemy, induced thereto by the hope of destroying a large part of our navy at once; as he will now be able, unfortunately, to collect an immense force opposite to the mouth of the Thames, and within

Having stated as concisely as I could my reasons for thinking that an enormous expence should not be incurred, for a new naval arsenal to the extent proposed, I am ready to admit, that the means of offensive operations France has acquired, by the energy with which it has established an immense arsenal at Antwerp, and by the acquisition of all the ports of Holland, we may probably be compelled to keep a much larger number of line-of-battle ships constantly to the eastward, than have hitherto been found necessary; in which case the

(35)

present Eastern Docks may not be found adequate for repairing and resitting the sleets to be employed in those seas, with a sufficient degree of expedition, so as effectually to supply the desiciency of the yards at Chatham and Sheerness for that of ervice. But I still feel consident, that, before the larger or the narrower scale is finally decided on, an accurate survey of the present yards should be made and, that detailed plans for their improvement should be given *.

When your Lordship observes, "that some "enlargements have been made to the yards "within the space of time I am speaking of "(that is from the reign of Henry VIII, to the present year), and that some few docks and slips "have been added, and some storehouses built, but that the additions have by no means kept pace with the augmentations of our navy," you hardly do justice to those who have presided in our

es kalai ak shekesa a shkekematabin akifist

^{*} I am aware of the opinion of the Commissioners for Naval Revision, quoted in p. 28. of the Letter, and of the reference to the Reports of Messrs. Jessop and others, in p. 29. but it is the report of such civil engineers, and detailed plans from actual surveys, that I wish the Minister to be in possession of, after the attention of those gentlemen shall have been called to the precise point in view.

naval departments for nearly three centuries. Anderson, in his History of Commerce, says: " How much these dock-yards, storehouses, &c. (in Kent) have been increased and improved since Camden's time, and even fince the first edition of Bishop "Gibson's Additions in 1692, would require a co volume fully to describe: and there are enlargements, as well as very useful and beautiful imconfrantly making to those places, and also to the two famous ports of Portsmouth and Plymouth."-Your Lordship indeed states, that the latter was formed in the reign of King William; and I have already observed that, fince the end of the feven years' war, the yard at the former has been enlarged more than one-third; and additions made in it of feveral docks, bafins, and very extensive storehouses, with other very considerable improvements. With the modern additions and improvements in some of the other yards I am not so well acquainted, but I believe they have been extenfive. If measures have not been taken for deepening the water at the bar near the spit, at the entrance of the harbour at Portsmouth, and for increasing the back-water to prevent the future increase of the bar, no more time I think should be lost in attempting works

(37)

works of fuch infinite importance; unless they have been deemed impracticable by competent judges.

The use of Northsleet, as a port of out-fit, would be confined to the equipment of the ships employed to the eastward; for those on channel and foreign fervice it could not be rendered ferviceable, on account of its distance, and the prevalence of the wind in the fouth-west quarter during two thirds of the year: ships would get from the Nore (as I observed to Mr. Perceval) to the Downs with almost any wind in moderate weather*; but there they would be likely to be detained frequently for many weeks, in an extremely bad anchorage, with the wind at fouth-west or fouth-fouth-west; during which time there might be a preffing urgency for employing them. In the early part of the year the wind prevails from the eastward, which would, on the other hand, prevent the ships of the western and foreign squadrons, from getting to the river to be fitted.

Not being able to form a conjecture about the nature of the plan for making the proposed arsenal by subscription under private management, I can

^{*} See p. 20, 21. of this Tract,

offer no opinion refpecting it; fuch a one, however, as holds out the prospect of the advantages of avoiding the necessity of advancing the capital and the risk of bad workmanship, ensuring at the same time the speedy completion of it, should not be rejected on account of the novelty, or even the improbability of its succeeding, without full deliberation.

I have thus, in the midst of very pressing engagements in public business, ran very hastily over the several points in your Lordship's letter, in the hope only of contributing towards satisfying the public of the propriety of further enquiry, before we embark in an immense expence; submitting to the judgment of others, with great deference, the considerations which have occurred to me, as to the expediency, or rather the necessity, for the extended work, so earnessly recommended by your Lordship.

I have the honour to be, my Lord,
Your most obedient, and
very humble servant,

GEORGE ROSE.

March 19th, was a said a coincide of the volume of the vol

:,2 🍇

Strahan and Preston, Brinters-Street, London