## From the London Mechanics, Journal ON NATURAL STEEL, OR GERMAN STEEL

36.

Three sorts of steel are usually distined blisser steel, because us surface is usually surers of steel in other places have attempted Cachar, Zeatung and Munnipore to be plaguished : the steel of cementation often call. covered with blisters; cast steal, formed from to imitate it; but, in fact, this rose is a sign ced under Princes to be hamed by the Brid blanches of the manufacture we hear of no the former by melting in a crucible; and of defect, and is only found at the place lish Government." lasily, natural steel, or that of the forges, very frequently called German isteel. - - data

casily welded, either to iron or to itself, and proper colour for hardening it is a cherry have the same privileges in British ports : We are happy, however, this week to ansome other quali ics which render it frequently preferable to the other two kinds of steel. Is grain is unequally granular, sometimes even fibrous; its colour usually blue; it is easily forged ; it requires a strong heat to temper it, and it then only acquires a mid-

dling hardness; when forged repeatedly it does not pass into iron as easily as the other kinds. all ad is the bears on viens

There are two subdivisions of this steel ; ediat once from the ore.

## SWICK ROYAL GAZETTE.

ALL ALL ALL he middle of the fracture a spot, yellow, orsteel. It has been thought that this rose of which to be settled this day." where the bar breaks with the greatest ease ; red heat.

distinctively German steel, or Pont stuff. " The Siamese nation to be included in Tuesday week, produced a corresponding It is not so good as the former ; it is sold the peace." This is the most used.

ange, or blue, which is called the rose, and pay the Hon. Company one crore of rupees, manufacturing towns of Yorkshire, during the bars in which it appears are called rose, by instalments the periods for the payment the whole of the present week; and in one was a mark of goodness, and the manufac- it is The Provinces or Kingdoms of Assam, the manufacturers here are increasing

Residents, with an escort of fifty men, indeed, it appears, to arise from a straw to be at each Court ; British ships to be adwhich is formed at the time of tempering the mitted into Burmese ports ; to land their thing of the state of trade in this town and variable of three kinds, but it is considerable steel. Files, and the best kinds of tools are, cargoes free of duty, not to unship their rudusually made of this steel in Germany ; the ders or land their guns ; Burmese ships to have been a monotony of "evil tidings," no person to be moles ed for their opinions nounce a change for the better. The mar-The next esteemed steel is that called or conduct during the war hereafter."

either in bars ien or twelve feet long, or in : Thus, I hope, has terminated a war which has been delivered out to the weavers, at, in barrels about three feet long ; it is marked has been most expensive in its prosecution, some instances better prices, and some of the with an anchor, or seven stars in a circle, not only in money, but also, by the effects Printing Establishments in the neighbour. of climate very destructive to bath Europe- hood have received during the last week, There is also a steel in Germany called an and the native troops; but I hope the Hon. large orders, and have therefore begun again Cologne steel, forged in bars 3 inches .5 the Government in Council will hear per to employ their workmen. Notwithstanding that procured from cast iron, and that obtain- long, i inch .25 wide, and o inch .75 thick. mit me to express the unanimous grateful this, there are a great number out of employ Solingen steel. Hungarian steel, marked feeling of the Madras army for the conside- and should a renewed demand for manufac. with an oak leaf, and sold in bundles of four rate comforts the Madras Government have, tures continue, it must be some time before

" The Burmese Government engage to has prevailed in Leeds, and all the principal oranch of business, the worsted stuff line, the number of their workmen." In other improvement? as teambers at staw while the

Blackburn Mail, May 10 .--- For several weeks past, we have forborne to say any neighbourhood, because our report would ket at Manchester being mare brisk on

IMP Grat children proper o of happi the idea ment. ease, and in the n frequent tures in dulgene pricious The pas other, th engende sires of insatiabl bands at mothers. tion in v jection. increase selfishne Whe the tree such, th While friends Winter He is a in his n hath no Mete June, a great br direction was rem ing falle the wind hours ol in the A a flash clouds b report. Locu many p great in Swarms pearanc thern St DOW CX In som in imm wick it them.

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13. 3000 1.4.

The steel yielded by cast iron manufactursquare. which has only been once treated in the refining furnace, is particularly called rough -steel, and is frequently very unequally converted into steel. Both these varieties are drawn in bars, then hardened, and broke into pieces.

The best cast iron for the purpose of making natural steel, is that obtained from hematites or from sparry iron ore ; if it contains magnesia, this is thought to be of ad vantage; it should be of grey colour; white cast iron does not yield steel unless its charge of carbon is increased, either by stirring the of which the following is an extract :--melted metal with a long pole, and keeping it melted a long time, that it may absorb charcoal from the lining of the furnace; or by melting it with dark coloured iron. Black cast from yields a bad brittle steel unless the excess of carbon that it contains is either burnt away. or it is melted with hery cinder. The cast iron, to be converted into steel, is then mettas if it were to be refined into bar iron, ontaken out of the refining furnace, towards, a woodoole on the 28th, a flag of truce and to tell his tale of disaster and defeat.

## LONDON.

From the London Gazette, May 13. INDIA BOARD, May 13, 1826. A despatch, dated the 17th of January, 1826, has been this day received at the a copy of a despatch from Brigadier Gene-

Patanagh, Jan. 1, 1826. I have the honor to acquaint you, for the goon. information of the Hon. the Governor in columns of the enemy was continued from day, Jan. 3. at four p. m. Meaday to Patanagh, by forced marches by the Madras division, accompanied by the

ed in the refining houses, is known by the or six bars, fastened together with iron bands : upon every occasion, forwarded to their ar- the condition of our labouring classes can general name of furnace steel; and that the bars are of different sizes, but a inch mies here, comforts which have been the be effectually ameliorated.

means of saving many valuable lives, and which will be ever most gratefully acknow- perfectly tranquil during the present werk ; ledged by every officer and man.

It will, of course, rake a long period to manifested. More goods were sold at the arrange the move of the troops from hence to Rierce hall yesterday than have been sold Rangoon, with the materiel and stores.

of Ava, and the English prisoners now at perceptibly advanced, considerable benefit East Indian house from the Secretary to the Amarapoorah, are to arrive at Patanagoh in will accrue to the public from the additional Government at Fort St. George, inclosing 15 days (15th January), on the receipt of employment which the manufacturers will be which we shall immediately retrograde to enabled to give out. ral Willougby Cotton to that Government, Prome. The roads across the Arrican mountains present difficulties which will oblige the Eengal army to retire by Ran-

P.S. Jan. 3 .--- Owing to prolonged dis- connected with the port of London, stating Council, that the pursuit of the scattered cussions the Treaty was not signed until this that the shipping of this country were going

## May 14.

The accounts with respect to Greece budy guard and a troop of horse artillery, continue to be as contrary as ever. An aled in blast furnaces, and treated nearly thesame and the Commander of the Forces; on reach- most equal uncertainty remains with regard ing Neaungla, five miles below this place, to the relations between Russia and Turkey, what it had been at the close of the war in ly the blast is weaker ; the twyer, instead of we ascertained the enemy had crossed their and the intentions of the former power. We being directed so as to throw the wind upon whole force to the right bank of the river, must however, content ourselves with the exthe surface of the melted metal, is placed and that they occupied the position of Mal- pression of our hopes, that the cause of libernearly horizontally; the melled metal is co- loon, consisting of a series of strong fortified ity will be at length triumphant. If we leign ships entered inwards in the same year vered with slag, and is not disturbed by heights and a formidable stockade, with from were to attach implicit credit to one set of was 5280, their tonnage 694,000 tons. In sturring; when judged to be sufficiently re- ten to twelve thousand men. It was also as - reports, the wonder would be, that the fined, and is grown solid, it is withdrawn certained the King's brother-in-law, and most Greeks have not long since been annihilatfrom the furnace, and forged. After this of the men of rank who had assisted Zea- ed; if to the other, we should suppose that 845 tons : the number of foreign suppose that natural steel is made, there is almost always hengaish, were at Maloon; they dispatched not a single Arab or Egyptian could return 6561, and their tonnage 892,000. Ibs

STATE OF TRADE.

Bradford, May 12 .--- This town has been not the slightest indication of rist has been on any previous market day during the last The ratification of the treaty by the King three months; and though prices were not

> HOUSE OF COMMONS, MAY 14. British Shipping .--- Mr. Huskisson said petitions had been presented from persons to decay, and that our ultimate ruin must be the consequence. But so far from this being the fact, the number of ships built last year exceeded the number built in any year since 1789, and was little short of double 1824. In 1824 the number of british ships entered inwards was 19,164, the tonnage 2,364,000 tons ; the number of for-1825, the number of british ships emered inwards was 21,786, their tonnage 2,786. showed the shipping of Great Britain continued to increase beyond that of all rivel

nions from 1814 to 1825, inclusive, distin-

Mr. Baring spoke of the satisfactory cha-

racter of these explanations ; and after some

the end of the operation, one or more pigs of a letter, stating it to be the wish of their iron ; which are rather hard, and used for Chiefs to put a period to hostilities, and that implements of husbandry.

That is the best natural steel which is the powers to treat and ratify, and requesting a approach of Whitsuntide, which is always number of ships built in the british domidensest-becomes the hardest when temper, meeting for that purpose. Lt.-Col. Tidy a dull time in trade in Manchester, and parted, and is not brittle. Its grain should be and Lieut. Smith, of the navy, were accord- ly to other circumstances, there have been guishing the amount in each year, and their very fine and equal; and it should be capa- ingly despatched to arrange a conference to very few country or London builders in tonnage." ble of being forged and welded without be held in a boat on the centre of the river, town this week, and the demand for goods breaking or splitting ; lastly, it should sup moored between Maloon and Patanagh. Ac- has therefore been limited .--- There is, how port the action of the forge well, without cordingly the Commander of the Forces and ever, a little revival of demand for some of remarks from Mr. Robertson, Sir M. W. changing its nature. Ar. Ellice, Mr. Hume, &c. the

being strawy or containing parts which are deers, met the two Burmese Commissioners, qualities of which an advance of 3d. to ld. not steel, but merely cast iron, sometimes it Kelieu Manjee, and the Kee Woonjee, on per lo. we understand has been obtained ed al service

Germany, is that of Styria; it is usually sold in chests or barrels two and a half or three feet long. Its grain is even, close and fine ; but when polished, it shows fibres, cinders & sirely free---Sometimes when broke it has in perpetuity."

Manchester .--- Partly owing, perhaps, to countries. The Right Hon. Gentleman a Minister had arrived from Ava, with full the stoppage of the canal, partly to the near concluded by moving for a " Return of the

Natural steel has in general the defect of attended by myself and most of the Briga be more business doing in twist, for some papers were ordered.

A motion was brought forward last night is eindery, its surface being covered with the 30th ult, and I am most happy to state within the last ten days. Nevertheless, it by Mr. Fowell Buxton, on the Slave I rade small holes; but this seems merely acciden - that the result of the conferences of that day is yet far from commanding saving prices, to of the Mauritius, and produced what appeals tal, and owing to its being treated with too and yesterday, has been a satisfactory adjust-beay nothing of a profit. There have been to be irresistable evidence, that long since strong a heat. It is in order to remedy these ment, as far as regards territory and money, several failures here within the last fews the abolition of the slave trade it tralic defects that steel is bundled together and forg between the British and Burmese nations, day, though fortunately not, with or e excep- has really been carried on in that contry un-The raisfication by the Commissioners of tion on a large scale. They tend, however, to der the British Governors. The only The most esteemed natural steel, made in the Treaty takes place this day at two o'clock, defer the restoration of coundence. Never- doubt seems to be, hew date a period it has and the terms of peace are as follow :--- wheless, we still think that the triost severe flourished. It is necessary for the honor The four provinces of Arracan to be of our commercial trials are at au end; and, of the british character, that the investigation, ceded in perpetuity to the Hon. Company." chough our progress may be si w, and our which was ordered on the motion of Mr. " The provinces of Megui, Tavoy, and course occasionally interruped, we are still Buxton, shall be persued in the most search. threads, from which even this steel is not en Zea, to be ceded to the Hon. Company in in the way of improvement.

Leeds. The most perfect trangailing terred to by the French, in answer to the

Duk Grace ( man of by the Ridgew a iransp a compl s rid ou plerely silver p of the groups every a Wine co give a!

