စိုက်ပျိုးရေးနှင့် ကြေနှံ့စ်ဖော်မှုများ

ယူနိုင်ရာသားသော စိုက်ပျိုးရေး ကြော်ရွန်းခြင်းများကို ပြုလုပ်ရာတွင် တိုင်းပြည်များတွင် ပြုလုပ်ရာတွင် စိုက်ပျိုးရေးနှင့် ကြေနှံ့စ်ဖော်မှုများကို ပြုလုပ်ရန် အဆင်မပြေ ပြုလုပ်နိုင်သည်။

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უმკურთხვლელი ადგილში ჯერ უკვე უფრო დიდად დაამთავრებე ამ პრობლემას და აღწერო გარემორთიანობა —

ამ ფიქრებისგან გამოგომებით გამოხატავს შემდეგი ფაქტები:
1. გარემორთიანობა გამოიცხოვა 1990 წლის 5 თებერვლის 10 საათზე.
2. გარემორთიანობის პრობლემა გამოიქმნა და განიცდილა რეგიონის რეგიონული თაღმწუხებელი ზეგანზე.
3. გარემორთიანობის პრობლემა გარდაიქმნა რეგიონის თემატიკური რეგიონის თაღმწუხებელი ზეგანზე.
4. გარემორთიანობის პრობლემა გარდაიქმნა რეგიონის თემატიკური რეგიონის თაღმწუხებელი ზეგანზე.
5. გარემორთიანობის პრობლემა გარდაიქმნა რეგიონის თემატიკური რეგიონის თაღმწუხებელი ზეგანზე.

მიღებული და გარკვეული შეთქმულებით იხსენიება, რომ ამ პრობლემას გამოიყო 1990 წლის 5 თებერვლის 10 საათზე.

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სამუშაოდ ახალი მოჰყვა თავისი მოგზაური მცენარე განთავირდა სამთავრობო სამოგზაურო რეგიონში. თავისი გზახული ქალაქი გაწვევა გამოშავდა ამ დროს. მოკლების მმართველ უფრო კარგად ჰქონდა, გარდა იმისა, რომ მას ეძღვნებოდა მრავალი ადამიანი. თავისი მოკლები ღირსით შეიძლო ისეთი დახვრეტა, რომ გაშვები გამოიტანდა მათგან. რის შედეგად, მოკლების შემდეგ მათი იმედი შეიცვალა. თავისი თავშესაფრთხეობის გზა ყოველთვის მოცემული იყო თავის მოკლების მიერ. მათ არც ერთ ხელში რჩევის შემოტანა ჰქონდა იმის შესახებ, რომ ისინი გადაიტანონ. თავისი ამოღების შემოტანა გამოიყენებოდა მათგან მიუთითებელ ხარისხად, რათა პირველ თავშესაფრთხეობით მოღწევინა მათ ადამიანთა მოქმედება. თავისი შეპყრობა შეიცვალა და მათ შედეგში მოკლა.
(Father Abbona) did not see why Burma should be included in the number of powers between whom and the Christian powers the JUS GENTIUM as we understood it, cannot be reciprocal.
အမှန်ပြုသောကြောင့် ရှေ့စွာ ပြောပြပါတယ်။ သို့သော်လည်း ဒီစိတ်ချမ်းမှုများကို ၂၀၀၅ ခန့်မှန်းပြီး အလုပ်သမားများကို သိရှိနိုင်စေရန် အခြေခံခဲ့ရာတွင် အောက်ပါဦးစွမ်းပြုလုပ်ခဲ့သည်။

ယခုတွင် မှန်ကန်ထားသော အချက်များကို စိတ်ချမ်းမှုပြုလုပ်ခဲ့သော ရှေ့စွာ အလုပ်သမားများကို ပြောပြပါတယ်။ ထို့အပြင် စိတ်ချမ်းမှုများကို အလွှမ်းခြုံစေရန် အောက်ပါဦးစွမ်းပြုလုပ်ခဲ့သည်။

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LIST OF MACHINERY AND STORES AT SMALL ARM FACTORY, MANDALAY

One portable engine and boiler on wheels, by Robey and Co., with 9 inch cylinder and 14 inch stroke.

One metal screw press, weighing 1½ tons, with 5 inch screw and long levers.

One 20 horse power, horizontal, condensing engine with tappet valves, the cylinder 16 inch diameter and 3 feet stroke, quite new, not erected, made by Gebr Sulzer of Winterthur (one crank shaft lying near of the same pattern and size as shaft for this engine, belongs to engine at gun factory).

Two cylindrical single flute boilers 24 feet long, 4¾ feet diameter, with expansion joints, steam dome, steam receivers, two in number for each boiler, running its whole length and 19 inches diameter, double riveted, of ½ inch plate, and capable of bearing a working pressure of about 100 lbs per square inch, made by Gebr Sulzer, Winterthur, quite new and in good condition, for supplying steam to above named engine.

One portable engine by Ransomes, Sims and Head, used for electric lights, nearly new, has 8 inch cylinder, 12 inch stroke.

Eleven lathes, with beds 7½ feet long and heads varying from 4½ inches to 8½ inches. These lathes are self acting, specially suited and arranged for gun and small-arm work; made by Maseva and Terioso of Turin or Sisenti of Briscia. Petty pilfering of the brass work has taken place from most of them.

Three machines for shaping the external portions of gun barrels.

Six wheel cutting or stock shaping machines.

One gap lathe with screw cutting gear, 8 feet bed and 8 inch head, gap 12 inches by 8 inches. Incomplete.

One gap lathe with screw cutting gear, 7 feet bed and 7 inch head.

One gap lathe with screw cutting gear, 9 feet bed and 8 inch head, with gap 10½ inches by 5 inches, made by Decker of Turin. Incomplete.

One gap lathe with screw cutting gear, 9 feet bed, 9 inch head, by Decker; the gap 12 inches by 8 inches.

One gap lathe with screw cutting gear, 7 feet bed, 7½ inch head, by Bouhey. Incomplete.

One gap lathe with screw cutting gear, 16 feet bed, 15 inch head, with gap 2 feet by 12 inches. Handles missing.

One screw cutting lathe, 15 feet bed, by Whitworth, with 10 inch head. Slightly incomplete.

Two double shaping machines, 7 inch stroke, with tables complete.

One drilling machine, self feeding, with raising table and single motion.

One planing machine, small, by Berry, 16 inch stroke and 12½ inches between frame, to cut 12 inches high.

One slotting machine, 6 inch stroke, by Decker, 1877. Incomplete in feed gear.

One slotting machine 6 inch stroke, by Decker 1877. Complete.

Two small slotting machines with 3½ inch stroke. One hand saw. Complete.

One planing machine with 10 feet table, 2½ feet between frames, to cut 3 feet high.

A lot of vices.

One planing machine with 5 feet table, 22 inches between frames, to cut 2 feet high, by Decker of Turin.

One small lathe with 3 feet bed and 6½ inch head.

One portable engine on wheels by Societe Centrale de Construction Pantin, Seine’ 12 inch stroke and 10 inch cylinder. Small gear missing.

One lot tapered rifle-barrels, unbored or turned, with all suitable forgings and casting for locks, etc., weighing about 10 tons.

One portable engine on wheels, by Young & Co., St. Leonards. 9½ inch cylinder, 14 inch stroke.

One small set of rolls or mills, double acting, rolls 5 inches wide.

LIST OF MACHINERY AT GUN FACTORY, MANDALAY

One egg ended boiler, externally fired, length 15 feet, diameter 3½ feet, single riveted ½ inch plate. Value uncertain.

One feed donkey with 5 inch cylinder, 10 inch stroke.

One steam hammer by Naylor, 1856, with anvil and block; stroke 20 inches, weight of piston 10 cwt; has double action.

Two cylindrical single flute boilers, 24 feet long, 4¾ feet diameter, with expansion joints, steam dome, steam receivers, two in number for each boiler, running its whole length, and 19 inches diameter, double riveted, of ½ inch plates, and capable of bearing a pressure of
probably 100 lbs per square inch, made by Gebr Sulzer, Winterthur, quite new and in good condition.

One 30 horse power horizontal condensing engine, with tappet valves, the cylinder 16 inches diameter and 3 feet stroke quite new, made by Gebr Sulzer, Winterthur, for working in connection with boilers named above. (The crank shaft of this engine lies in small arm factory, where another engine of same type is lying.)

One 80 horse power horizontal engine by Smith, Glasgow, 1868, with two 30 inch cylinders, and 4 feet stroke, and 19 feet fly wheel, weighing 16 tons or more. The caps and brasses have been partially removed.

Three boilers, cylindrical, single flue, 26 feet long, 5 1/2 feet diameter, 7 7/8 inch plates, by Cowans, Sheldon & Co., condition uncertain, but never used, set in brick work.

One portable crane, by Cowans, Sheldon & Co., Carlisle, 1868, dismantled.

One slitting machine with 18 inch table, about 10 inch stroke. Parts dismantled but lying near.

One shaping machine, 15 inch stroke, with rising table and 4 feet bed.

One screw cutting lathe, 8 feet bed with dog chuck, head 7 1/2 inches. Slightly incomplete.

Two self acting lathes, by Craven Brothers, with 19 feet beds and 18 inch head.

One self acting lathe, by Berry and Sons, 18 feet bed, 13 inch head.

One self feeding drilling machine with circular rising table. Slightly incomplete.

One 10 feet table planing machine, 2 1/2 feet between frames, to cut 3 feet high, by Dundas.

One wheel cutting or shaping machine.

One lathe for gun turning, rifling or boring, with 28 feet bed and 23 inch head.

One portable engine on wheels with 8 feet driving and fly wheel, has 12 inch cylinder, 20 inch stroke, slightly incomplete in slide valve, rod, etc. Is about 12 horse power, by Young of London. One grindstone with trough. One hand saw table.

One 19 feet lathe with 12 inch head, self acting and screw cutting, with gap and dog chuck. In good condition.

One 19 feet lathe with 26 inch head and 6 feet face plate; will take 8 feet.

One table drilling machine with spring catch for tools.

One small tooth cutting or shaping machine.

One lot of boring bars.

One horizontal 8 horse power engine with 10 inch cylinder and 30 inch stroke, by Dundas; belt or fly-wheel 6 feet diameter.

Two cupolas, each about 5 tons, with wind standards or tuyers.

One overhead traveller with 40 feet gharry and winch complete.

One carrier and moulding box.

One pug mill with pan and rollers complete.

One 14 inch boring bar 16 feet long. One lot of old wrought and cast iron, about 50 tons.

One portable engine by Ransomes, Sims, and Head, used for electric lights, nearly new, has 8 inch cylinder, 12 inch stroke with funnel.

LIST OF MACHINERY AT GUN FOUNDRY AND MINT IN PALACE

One lathe with 18 feet bed, 13 inches head, with self acting gear, by Craven Brothers.

One gap lathe with 18 feet bed, 20 inch head, 5 1/2 feet face plate. Incomplete in brasses and slide rest, by Craven Brothers.

One lathe with 20 feet bed, 18 inch head, self acting. Brasses missing, by Craven Brothers.

One double riveted boiler, 15 feet long, 5 feet diameter, 3/8 inch plates with 2 3/4 feet flue.

One 8 horse power horizontal high pressure engine with 10 inch cylinder, 2 feet stroke, by Smith of Glasgow, 1867. Dismantled; slightly damaged in feed pump.

Three self acting lathes, 20 feet beds, 18 inch head, by Craven Brothers. Brass-work missing.

One self acting lathe, 18 feet bed, 13 inch head, by Berry and Sons.

One single cylinder 10 inch portable engine and boiler, by Societe Central, Pantin, Seine. Complete.

One 8 horse power horizontal high pressure engine, by Heaton and Sons, 1864; cylinder 10 inch, stroke 2 feet, with all gear complete.

One coining press by Heaton and Sons; driven by belt.

One milling machine.

Two disc stamps. Two sets rolls shafting, etc.

LIST OF MACHINERY AT COTTON MILL, MANDALAY

One boiler by Howard, of Bedford, a patented article, with cylinders about 12 inches diameter.
One 40 horse power engine by Rothwell and Co., 1869.

Horizontal, high-pressure, fitted with expansion valve; cylinder 19 inches diameter stroke 3½ feet.

Looms and spindles are by Hetherington. There are about 60 of the former and 1,500 of the latter, with all necessary shuttles, reels, cans, devils, and gear for spinning and weaving.

LIST OF MACHINERY, Etc. AT DOCKYARD NEAR LANDING WHARF AT MANDALAY

Lathe self acting, with 30 feet bed and 7 feet face plate; of modern pattern. Requires slight repair to handles of gearing; is unbedded.

Drilling machine, horizontal. Some gear missing.

Punching press on bear. Shaft of punch missing.

Punching and shearing machine with 19 inch gap.

In good condition and of modern build.

Punching and shearing machine with 24 inch gap and shears for angle bars. In good condition.

Planing machine with 8½ feet table, capable of taking a cut at a height of 3 feet. Slightly incomplete in small handles and feed gear.

Radial drill with horizontal and vertical tables and 3 feet jib. Handles only missing.

Slotting machine, vertical acting, with self acting feed gear, 10 inch stroke. Handles only missing.

Drilling machine, vertical acting, with revolving and lifting table. Some small gear missing.

Screwing machine. Small parts missing.

Shaping machine, horizontal action, 12 inch stroke, with good horizontal and vertical tables, also with parallel vice to fit table.

Gap lathe with self acting and screw cutting gear, gap 28 inches by 14 inches, bed 20 feet long, head 16 inches.

In very good condition, but slightly incomplete.

Lathe, self acting and screw cutting, with 16 feet bed, 13½ inches head, with good pawchuck, made by Dundas, Scotland. Slightly damaged.

Drilling machine, vertical acting, with movable square table. Worm-wheel missing.

Punching and shearing machine, portable, oblique 10 inch jaws, on wheels. A handy machine.

Lathe, self acting, with 5 feet bed, head missing.

Counter shafting is lying in shop.

Lathe, screw cutting and self acting, with 16 inch gap and 10 feet bed.

Screw jack metal. In good condition.

Screw jack wood. Requires repairs.

Anvils, Smith’s five in number.

Vices, bench, seven in number.

Rivet and Smith fire-hearth, iron, 12 in number. Require repairs.

Blowing fan, one in number. In good condition.

Crane; the iron work never erected, of one good swinging jib-crane of large size; probably 10 tons.

MATERIALS, OLD AND NEW, LYING ADJACENT TO THE ABOVE MACHINERY

Chain cable, 100 to 150 fathoms, 1¾ inch diameter. Good.

Plates, iron, new; 45 tons.

Rivets, iron, new; 5 tons.

Boiler tubes, iron, new, 5 feet 8 inches long. 2½ inches diameter about 500 in number.

Angle bars, iron, about 7 tons, in good condition, quite new.

Brass and copper, old, about 2 tons. Round bar, iron, new; 3 tons.

Iron, old, of sorts, wrought and cast; 80 tons.

LIST OF SAW MILL MACHINERY AT MANDALAY

Three sets of verticale saw frames of 3½, 4, and 5 feet width between frames, complete with rails, carriages, clamps, feed gear, etc. The rails extend for a length of 80 feet.

Two sets under hand circular-saw beds, benches, etc. with all necessary tables, rollers, guides, etc. for a length of 100 feet, and capable of sawing logs by a cut of 2 feet and 21 inches respectively.

Two circular bench saw tables to cut 15 inches and 9 inches respectively. Onetraveler carriage overhead, without winch, the winch being dismantalled and lying in shop near foundry.

One 40 horse power engine with two cylinders, each 22 inches diameter, 3½ feet stroke by Abbott and Co., Newcastle, fully mounted and geared for driving machinery, with all necessary primary and secondary shafting, cog-wheels, pulleys, etc.

Three cylindrical boilers, single riveted, of 3/8 inch plate, 27 feet long, 5 feet diameter, with single flues. Value supposed good, but
mounted in brick work, and not capable of survey at present.

One saw sharpener machine for carrying emery wheels.

LIST OF MACHINERY IN THE FOREIGN AND FOUNDRY SHOPS AND STORES NEAR SAW MILL AT MANDALAY

Crane 15 tons or about, with wooden jib set in iron socket-pieces, to lift about 60 feet, overhang from spindle 25 feet, works either in double or single gear; chain 1¾ inch diameter, made by Cowans, Sheldon and Co., Carlisle is complete with the exception of crane handles.

One shingling or forging furnace with wrought iron walls 15'×6'×7', bricked complete in fireclay; entrance doors 3 feet square, never used. This is portable as far as ironwork is concerned.

One shingling or forging furnace with wrought iron walls 14'×5'×7', with doors 2 feet 4 inches by 1 foot 9 inches, portable as above. Never used.

Attached to each of the above is a cylindrical single flue boiler to receive its heat from the furnace; the boilers are 26 feet by 5 feet, and were erected to drive steam hammers, etc., in this shop. Boiler single riveted, 1/16 inch plating properly set, but never used. The steam valve brasses have been removed.

One steam hammer, probably the largest in Asia, weighing 60 tons, by Glen and Ross, of Glasgow, 1868 (no. 363); will strike about 10 tons, is on Rigby's patent, has double action, with wood bed, completely built. The steam valve is missing, but must be about the shops somewhere. The steam pipes are near the door.

One small low pressure boiler 9 feet by 3 feet with dome, apparently unused. Suitable for distilling.

One 7 feet upright boiler, 3 feet diameter 3/8 inch thick; single riveted.

Two tank logs 35 feet long and 1 foot square. Ten tons iron castings.

NEXT SHOP OR BOILER FACTORY

One rivet or bolt making machine, by Joseph Haley, Manchester. Twenty-eight boiler tubes (iron) 6 feet by 3¾ inches outside. One set plate rolls 14 feet long, with draw roll 16 inches diameter, by Fleming and Co., Glasgow.

Two small standard countersinking machines, by Berry, Stourbridge.

One punching and shearing machine, by Smith, Peacock, and Tannet of Leeds, with 13½ inch gap. A good machine; scarcely used.

One set of draw rolls, by Bouhey of Paris, length 6½ feet, diameter 7 inches.

One double acting steam hammer, by Dundas of Scotland, 16 inch stroke, and 10 cwt. hammer. Two large vices.

One tubular boiler, never used and in excellent condition, length 9 feet, diameter 4 feet, with smoke box, etc.

One lot of round iron, in bars, 6 inches diameter, about 8 feet long, weighing about 2 tons.

This shop is fitted with four Smith's brick-built forges with wind blast complete and measures 80 feet by 48 feet; the walls are of brick to a height of 8 feet from thence the framing and roofing is of wood.

Adjacent to the above shop is another in which the bulk of the machinery is situate, namely.

One fixed engine for blast of 4 horse power, 1½ inch stroke, 7 inch cylinder, with piston and rod removed and lying in godown near pagoda. One wind-blast pump, by North of Oldham. One large fly-wheel for engine in godown near pagoda.

One lathe, self acting, with 20 feet bed, by Craven Brothers height of head 18 inches, face plate 3 feet, with carriage and slide rest.

One lathe, 18 feet bed, 13½ inch head, by Berry and Sons.

One steam fire pump. The carriage and tank for this is in shop near pagoda.

One screwing machine. Incomplete, disks missing.

One self acting lathe, 18 feet bed, 13½ inch head, by Berry.

One gap-lathe, 7 feet bed, 8 inch head, the gap being 13 inches by 9 inches, made by Bouhey, Paris.

One gap lathe, self acting, 16 feet bed, 27 inch head, 6 feet face plate, to take 16 feet, by Berry. Slightly incomplete.

One horizontal boring machine, by Bouhey, with 10 feet bed, 12½ inch head, to bore 3 feet long by 2 feet diameter.


One iron planing machine, by Craven Brothers, with fixed table, to take 6 feet wide by 6 feet high; length of bed 26 feet.

One gap lathe, self acting, with 17 feet bed and 5 feet face plate, to take 8 feet, by Craven Brothers.
One oblique shearing and punching machine, by Bouhey, to cut to ½ inch thickness, with the gap 9 inches.

One gap lathe, self acting and screw cutting, with 15 feet bed, 18 inch head, and 4 feet face plate, to take 7 feet (old pattern).

One shaping machine, by Bouhey, with 3½ feet travelling table, stroke 12 inches.

One pillar drilling machine. Dismantled, by Bouhey.

One small drilling machine, by Berry, with hand feed.

One gap lathe, screw cutting, 17 feet bed, 11 inch head, with face plate, 2 feet 4 inches diameter, gap 7 inches, will take 3 feet, by Bouhey.

One slotting machine, by Berry, 18 inch stroke, with revolving table.

One 6 feet planing machine, 3 feet wide, to cut 2½ feet high, by Bouhey.

Two boring bars, with screw feed 7 and 12 feet long.

One small planing machine, with movable table, 12½ inches between frame, stroke 18 inches.

One overhead traveller, 27 feet long, built of wood with iron ends and strengthenings; the winch is by McClellan, Glasgow, and lies dismantled, never having been erected in the shop.

One boiler 18 feet long, 5½ feet diameter, with all mountings; the boiler plate is ¾ inch thick, for driving the shafting throughout shop.

One 14 horse power engine for driving the shafting throughout shop, 13 inch high pressure cylinder, 2½ feet stroke, by Smith of Glasgow, bearing date 1867.

SHOP ADJOINING ABOVE, TO THE RIGHT OF ENTRANCE GATE, USED AS FOUNDRY

One lot of ½ inch boiler plates, generally 14 feet long by 4 feet wide, weighing 12 tons.

Two cupolas for iron, to melt from 3 to 5 tons, with wind-blast standards.

One foundry crane with wood jib to lift 5 tons, overhang 12 feet. One large pouring ladle of about 2 ton capacity. A lot of cast iron moulding boxes, etc.

A SHED ADJOINING NEAR PAGODA

One small deck-pump, iron.

Two large iron doors for covering brickwork at end of boilers.

One engine, 15 inch cylinder, stroke 28 inches, with expansion valve and mountings, horse power 20. The fly-wheel is in shop near foundry.

One slotting machine, 9 inch stroke, scarcely used, by Bouhey. Handles missing. Fire engine cart; belongs to fire engine in shop near foundry.

Ten split pulleys, quite new, varying in size from 3½ to 6 feet diameter.

One circular saw bench 4½ feet by 2¾ feet.

Two blast machines, unused.

Thirty tons good coke.

One hand saw machine with table 4 feet by 2½ feet.

Ten tons angle bars varying in size from 4 inches to 3 inches.

A lot of copper piping, about 3 cwt.

A lot of iron tools, pulleys, scrap, etc., about 10 tons.

LIST OF MACHINERY AND GEAR AT SAGAING SMELTING WORKS

One set of horizontal shears for cutting rough iron, with steam engine attached, but small gear broken or removed. The knuckle through which the pin of shear passes is broken.

One set of vertical shears for rough iron, with engine attached, but metalwork removed and missing.

One steam hammer, erected, with anvil block. The piston and hammer face are missing.

One blast-fan, 2 feet diameter, with driving pulley broken.

One roll-train for bar iron, consisting of four sets of rolls, with all necessary framing and spur wheels.

One roll-train of breaking down and plate rolls, consisting of seven sets of rolls on each side of driving gear, with all necessary foundation-plates for rolls and engine attached.

One engine for driving above, horizontal, high pressure, with cylinder 26 inches diameter and four feet stroke, 60 nominal horse power; the fly-wheel is 18 feet diameter.

One steam hammer on Sturgeon's patent, by Rothwell and Co., Bolton, about 18 inch cylinder, lying dismantled. A 2 ton hammer.

One roll-train for bar iron consisting of five sets of rolls, with all necessary foundation-plates and framing attached.

One engine for driving above, horizontal, high pressure, with 26 inch cylinder, 4 feet stroke, of 60 nominal horse power, and fly wheel 18 feet diameter.
Two smelting furnaces of plate iron, unlined with brick, 33 feet high, 18 feet diameter, standing on cast iron pillars 10 feet high and 10 inches diameter; on square plinths and heads.

One set of 16 cast iron siphon-shaped 10 inch pipes, with connecting pieces for hot air blast to smelting furnaces, with four stop-valves.

Two vertical high-pressure blowing engines of about 3 feet diameter and 4 feet stroke, for supplying blast to smelting-furnaces, with all necessary sole plates, fluted cast-iron pillars to carry entablature fly-wheels, crank, shafts, etc.

Twelve egg-ended boilers, each 36 feet long and 5½ feet diameter, of ¾ inch plate, single riveted, by the Dallam Forge and Co., Warrington, with 24 hot-gas pipes for same.

The materials for erecting 10 puddling and shingling furnaces of good cast-iron plates; weighing about 50 tons.

One blower on Baker’s patent, 3 feet diameter, 17 inch size, with necessary pipe to test smelting furnace as built.

One lot of cast-iron piping, 3 feet inches internal bore, with exterior flanges; weighing about 5 tons.

One lot of cast-iron piping, 7 inches internal bore; weighing about 6 tons.

Six screwing machines with 3 feet beds and 7½ inch heads, by Farmer of Salford.

One lot of cast-iron pipes, 8 in number, 13 inches internal diameter, with exterior flanges; weighing about 6 tons.
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