

E/1247 P.F.

17 / 10 / 1906

QUOTATION.

Name, _____

Address. _____

_____ hereby offer to supply the Materials specified below, at the prices named, and subject to the Conditions endorsed hereon.

Delivery free at the Stores, St. James's Gate Brewery, Dublin, within _____
of date of your Official Order.

To

day of _____ 190

GENERAL STORES DEPARTMENT.

A. Guinness, Son & Co., Ltd.,

St. James's Gate Brewery,

Signature, _____

DUBLIN

ARTICLE.	Price.	Per.	£	s.	d.
<u>Marine Boiler for Steam Barges.</u>					
Dimensions, &c.					
Length 7 ft.6 ins.					
Diameter of Shell.. 6 ft.6 ins.					
Diameter of Furnace tube 2 ft. 8 ins.tapering to 2ft 9 ins.					
Thickness of Shell Plate ... $\frac{1}{2}$ inch.					
Cover strips inside and outside of Shell $\frac{3}{8}$ inch.					
Front end plate $\frac{5}{16}$ inch.					
Back " " $\frac{1}{2}$ inch					
Back tube " " $\frac{1}{2}$ "					
Furnace $\frac{1}{2}$ inch					
Cover strip inside furnace "					
Combustion Chamber "					
Diameter of Rivets $1\frac{3}{16}$ "					
Holes for Rivets $\frac{7}{8}$ "					
Plain tubes ext.diameter $1\frac{3}{8}$ inch x No.11 W.G.thick.					
Stay Tubes " " $1\frac{3}{8}$ inch x $\frac{5}{16}$ inch thick.					
Diameter of Stay Bolts 2 inch and $1\frac{1}{2}$ inch.					
" of Combustion Chamber stays $1\frac{1}{2}$ inch.					
All with mountings etc. complete as shown on enclosed					
Blue Prints, Nos. 5642, 5752, 5753					
To be built to Lloyd's Rules and under, and to Lloyd's and Messrs. A. Guinness, Son & Co's inspection and entire satisfaction.					
<u>Working Pressure.</u> To be 100 lbs.per square inch. To be tested by hydraulic pressure to 200 lbs.per square inch and carefully gauged before, after, and during test by the Makers in the presence of Messrs.A.G.Son & Co.Ltd.Chief Engineer, or his representative, and Lloyd's inspector.					
TOTAL, £					

Trade and Cash Discounts allowed

Each Article to be priced.

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DUBLIN.

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ARTICLE.

Price.

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Material. Shell and End Plates, Furnace Flue, Combustion Chamber, Back Tube Plate, Stay Bolts, Combustion Chamber Stays and Bridges, and all rivets to be of steel made by the open hearth process, and as set forth under Lloyd's rules for quality of boiler steel. Tubes to be of best quality iron, solid drawn. Smoke box and smoke box doors and chimney to be of B.E. Staffordshire Iron, or equal brand, with a perfectly smooth surface. Furnace Bars, Dead Plate, Back Bearer and Plate to be cast iron of good quality, sound and clean, and free from air holes, flaws, or other defects.

Planing edges of plates. All plates and cover strip edges to be planed. Both of the end plates, the back tube plate, and back plate of combustion chamber, to be turned on outer edges, and on furnace flue openings. Plates to be ordered of sufficient size to allow of at least $1/8$ " inch being turned or planed off all edges which have been previously sheared.

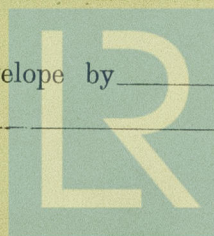
Construction. Shell to be in one plate in length of boiler, and not more than two in the circumference of boiler. To have longitudinal butt joint a little to the side as shewn on Blue Print No. 5642 and in a position to suit chairs. To have cover strips inside and out, double riveted, with four lines of rivets. Front and back end plates, back tube plate, and back plate of combustion chamber, each to be rolled in one piece, to be flanged for shell, furnace, etc. and afterwards annealed. Furnace flue to be truly cylindrical. To be in one plate in length of furnace. To have not more than one longitudinal joint placed a little to the side, and below fire bed as shewn on Blue Print No. 5642 5752 Longitudinal joint to be lap-welded, having a cover strip over joint on inside of flue. To be enlarged where riveted to front end plate. To have wrought iron brackets fitted on for taking dead plate and back bearer.

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ARTICLE.

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Boring. No manhole or other opening to be cut or bored in the shell or other plate before bending. All rivet and other holes to be bored, not punched. Holes to be rymered out perfectly fair with one another. Drifting will not be allowed. All burrs at such holes, and elsewhere to be carefully dressed off. Rivet holes to be slightly countersunk under both heads. Holes for setscrews, stays and studs, to be tapped with a full thread.

Riveting. The plates to be carefully and truly brought together at seams, and throughout all parts of the seam before riveting. The heads of all rivets to be carefully formed, truly concentric with the shank, and (except in the case of countersunk rivets) to contain not less than $\frac{1}{8}$ diameters thereof. The rivet to be red hot throughout, when inserted, and upset in its entire length so as to completely fill the rivet hole. Machine riveting to be used as far as possible. Care must be taken that the snags do not cut into the plate.

Manhole, Mouthpiece and Door. To be of wrought iron, with an opening of 15 inches x 11 inches in the clear. To be McNeil's Patent - Address, C. McNeil, Kinning Park Ironworks, Glasgow. Door to be fitted with a 2 inch diameter wrought iron, or steel, screwed plug for water supply, as shown on Blue Print No. 5642

Mudholes. Two mudholes and covers of steel plates, with strengthening piece, as shown on Blue Print No. 5642 to be formed in front plate, one on each side of furnace.

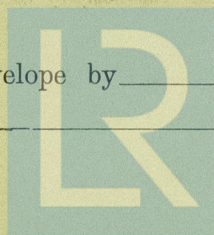
Stays. To be eleven in number screwed and fitted with washer and double nuts at each end. Each stay to be in one length throughout, not welded.

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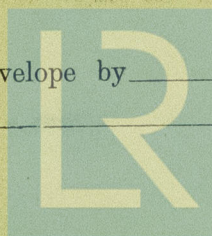
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ARTICLE.		Price.	Per.	£	s.	d.
Smoke Box. To be of 3/16 inch thick plate, on 2 x 2 x 1/4 inch and 2 1/2 x 1 1/4 x 1/2 inch angle iron, and fitted with two side hinged doors and one central door for lifting off. Smoke Box and doors to have an outer casing of 1/8 inch thick, forming an air space of 1 1/2 inches as shewn on Blue Print No. 5752						
Chimney. To be 1 ft. 3 ins. internal diameter neatly bent to a true circle at all parts, and without hammer marks. To have two welded bands of 2 x 5/8 inch half round iron, neatly riveted on with countersunk rivets, filed off smooth. To be provided with handle at top end for lowering and lifting, and a thickening piece on inside at handle, and also a thickening piece all round at bottom end as shewn. Chimney to be provided with special hinge on wrought iron brackets fixed to Smoke Box, also with upper and lower rings at joint of chimney with smoke box, and spiral spring as counterbalance, and all fittings complete.						
Mountings. Each, and all parts, of the mountings to comply with Lloyd's rules. To be as shewn on Blue Print No. 5753 and spaced as shewn on Blue Print No. 5642						
Number required	Description.					
One	Safety Valves. To be a double safety valve, having cast iron body with gunmetal valves and seats, 2 1/2 inch diameter. The valves to be controlled by springs, and to have spindles extending through the covers, and fitted with sockets and cross handles allowing valves to be lifted and turned round on their seats. To stand on a cast steel seating riveted to boiler. All to be as marked 'A' on Blue Print No. 5753					
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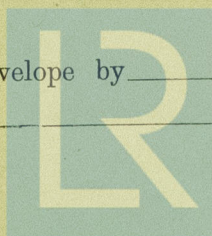
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ARTICLE.		Price.	Per.	£	s.	d.
Number required	Description.					
One	<u>Main Steam Stop Valve.</u> To have cast iron body, gunmetal spindle and nut, valve and seat, 3 inches diameter. To be fitted with 3 inch diameter internal perforated copper pipe No.12 W.G.thick x about 5 ft.long. Spindle of valve to have square thread $1\frac{1}{2}$ inch diameter, four threads per inch and of a length as shown for attachment of rod for working. All as marked 'B'.					
One	<u>Steam Valve to Tank Ejector and Port Injector.</u> To have gunmetal body and gunmetal valve and seat, $1\frac{1}{2}$ inch diameter. To be fitted with $1\frac{1}{2}$ inch internal perforated copper pipe No.16 W.G.thick x about 3 ft.long. All as marked 'C'.					
One	<u>Steam Valve to Starboard Injector.</u> To have gunmetal body and gunmetal valve and seat, 1 inch diameter. To be fitted with 1 inch internal perforated copper pipe, No.16 W.G. thick x about 3 ft.long. All as marked 'C'.					
Two	<u>Injector Feed Check Valves.</u> To have gunmetal body, gunmetal valve and seat, $1\frac{1}{2}$ inch diameter. To be fitted with $1\frac{1}{2}$ inch descending internal copper pipe No.16 W.G.thick x about 1 ft. 6 inches long. Similar on outside to valve marked 'C'. Discharge flange on boiler. Valve loose on, or clear of spindle.					
One	<u>Steam Valve to Crane Engine.</u> To have gunmetal body and gunmetal valve and seat, $1\frac{1}{2}$ inch diameter. To be fitted with $1\frac{1}{2}$ inch diameter internal perforated copper pipe, No.16 W.G.thick x about 3 ft.long. All as marked 'C'.					
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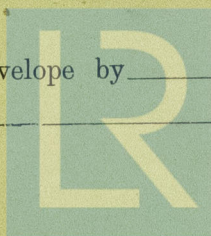
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ARTICLE.		Price.	Per.	£	s.	d.
Number required	Description.					
One	<u>Blow-Off Cook.</u> To have gunmetal body and gunmetal plug, bore $1\frac{1}{2}$ inch. To be fitted with $1\frac{1}{2}$ inch internal copper pipe, No.16 W.G.thick * about 3 ft. long. All as marked 'D'.					
One	<u>Stop Cook for Whistle.</u> To have gunmetal body and gunmetal plug, bore $1\frac{1}{4}$ inch. All as marked 'E'.					
One	<u>Steam Valve to Blower.</u> To have gunmetal body and gunmetal valve and seat, 1 inch diameter. To be fitted with 1 inch diameter internal perforated copper pipe No.16 W.G.thick * about 3 ft.long, and with 1" inch diameter external copper pipe No.10 W.G. thick * about 2 ft. long, and with blower fitted to upper portion of Smoke Box, All as marked 'F'.					
Two	<u>Water Gauges.</u> To be of Dewrance's make, gunmetal, with automatic valves for shutting off the water, in case of glass tubes breaking. To have glass tubes $\frac{3}{4}$ inch external diameter, and to be provided with plate glass shields in gunmetal frames.					
One	<u>Cook for Pressure Gauge.</u> To be of gunmetal, $\frac{1}{4}$ inch diameter.					
One	<u>Draining Plug for bottom of Boiler.</u> To be of steel 1 inch diameter, and as shown by full size detail on Blue Print No.5642					
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ARTICLE.	Price.	Per.	£	s.	d.
<p>The Boiler with fittings, mountings, &c. complete to be in all respects similar to the boilers in general use in the steam barges of Messrs.A.G.S.& Co.Ltd. and to be interchangeable with the other boilers, so that any one boiler may be removed, and the new boiler fitted into its place. The mountings of the new boiler must be placed, and arranged, to suit the existing arrangement of piping.</p> <p>(1) One Boiler as herein described, including all fittings, mountings, smoke box, chimney etc. to be delivered in 10 weeks from date of order at the premises of, and as directed by, Messrs.A.G.S.& Co.Ltd. for the sum of£</p> <p>(2). An additional Boiler, as herein described, including all fittings, mountings, &c. but exclusive of smoke box, and chimney to be similarly delivered, and in good order and condition, at the close of the Irish International Exhibition of 1907 for the sum of£</p> <p>(3) Extra for supplying and fitting on Smoke Box, and chimney to the second Boiler. The sum of£</p> <p>Price in each case includes for all contingent work, fees, claims, and expenses of every kind.</p>					
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