

11th. GIRDERS.—There are to be two girders in cast iron of the section shewn on the plan, and to be each 17 feet 6 inches, they are to be fitted and bolted to the two brackets cast on the turbine cylinder. Said brackets are to be so placed as to bring the girders 9 feet 6 inches from centre to centre. The ends of these girders are to rest and to be secured to four iron plates 36 inches long, 12 inches wide, 1½ inch thick, with two anchor bolts 3 feet long, 1 inch diameter for each plate secured in the wall.

12th. INLET CHAMBER.—This inlet chamber is to be in cast iron, and owing to its size, may be made in two pieces should it be found necessary to do so, the separation should then be made horizontally. Its dimensions are 9 feet 6 inches inside diameter, 7 feet high between bottom and top flanges. The thickness of metal, except in the flanges, is to be ¾ inch, and in the flanges 1½ inch. The outside diameter of flanges, bottom and top, is to be 10 feet. There are to be two horizontal ribs, ¾ inch thick by 2½ broad, as shewn on the plan. On one side there is to be an inlet of a square section with rounded corners. The outside of the flange of said inlet is to be 5 feet 4 inches from the centre of the chamber. The section of inlet is to be 9 feet 6 inches wide, 6 feet high, with rounded corners of a radius of 24 inches. The vertical flange is to be 5 inches wide outside to the dimensions given and to be 1½ inch. The work on said inlet chamber is, that the top, bottom and side flanges should be made true and fitted with holes to bolt thereon: 1st. The turbine cylinder; 2nd. The cover; 3rd. The inlet pipe; 4th. The two girders. The dimensions of flanges given are the dimensions when finished.

13th. CHAMBER COVER.—The cover of chamber is to be in cast iron, and to be 1 inch thick in the main body; its outside forms a flange of 10 feet diameter, which flange is to be 1½ inch when finished; the main body is to be slightly arched as shewn on the plan, with 8 ribs of 1 inch thickness, and of the form shewn on the plan. Said cover is to be arranged with a stuffing-box and follower to suit the turbine shaft, and also two seats 19 inches by 21 inches square, setting opposite to the inlet of chamber, and somewhat out of centre as shewn on the plan; said two seats are raised, when finished, 7½ inches over the bottom flange. The distance from inside to inside of said seats is 4 feet 5 inches.

The section of iron forming said seats is not to be less than 1½ inch when finished, and may be cast full, as shewn on plan. This cover is to be fitted on top of the inlet chamber, after being faced; the two seats are to be faced, and the stuffing-box is to be bored and fitted with follower to suit the turbine shaft—the cover is to be bolted to the flange of inlet chamber, with ¾ inch bolts 6 inches apart. It is also to be fitted with a man-hole 15 by 20 inches.