CLAIMS

[Claim 1] A glue supply apparatus for a gypsum board for supplying glue to a board base paper of the gypsum board, the glue supply apparatus comprising:

a tank section configured to store the glue;

a supply port disposed near an end of the board base paper of the gypsum board and configured to supply the glue; and

a pump section disposed on a glue supply path between the tank section and the supply port,

wherein the pump section is a positive displacement pump,

wherein the pump section and the supply port are connected by a pipe, and

at least an inner peripheral surface of the pipe is made of silicone resin.

[Claim 2] The glue supply apparatus for the gypsum board according to claim 1, wherein the supply port includes supply ports disposed near respective ends of the board base paper of the gypsum board, and

the pump section includes pump sections arranged in parallel on glue supply paths between the tank section and the respective supply ports.

[Claim 3] The glue supply apparatus for the gypsum board according to claim 1 or 2, further comprising:

a controller configured to control a supply rate at which the glue is supplied from the tank section to the supply port by the pump section, in accordance with a manufacturing condition of the gypsum board to be manufactured.

[Claim 4] The glue supply apparatus for the gypsum board according to claim 3, further comprising:

a storage configured to store a supply condition of the glue,

wherein the controller is configured to select the supply condition of the glue stored in the storage and control the supply rate at which the glue is supplied from the tank section to the supply port by the pump section, in accordance with the manufacturing condition of the gypsum board to be manufactured.

[Claim 5] The glue supply apparatus for the gypsum board according to claim 3 or 4, wherein the pump section is a rotary positive displacement pump, and the controller is configured to control a rotational

speed of the pump section.

[Claim 6] The glue supply apparatus for the gypsum board according to any one of claims 1 to 5, further comprising:

a spreading member configured to spread the glue on the board base paper.

[Claim 7] The glue supply apparatus for the gypsum board according to claim 6, wherein the spreading member is a spatula, and

the spatula has a cut in an end portion thereof facing the board base paper.

[Claim 8] A gypsum board manufacturing apparatus comprising:

the glue supply apparatus for the gypsum board according to any one of claims 1 to 7.

[Claim 9] A gypsum board manufacturing method comprising:

a glue supply process of causing the glue supply apparatus for the gypsum board according to any one of claims 1 to 7 to supply the glue to the board base paper.