

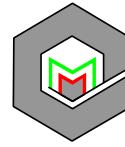


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Enquiry for Briquetting warm water generator package (GG 11-01)

REV	Date	Design by	Checked by	Approved by	Comments
1	Jan 2021	M S	S KH	H A T	Issued for approval
0	Dec 2020	M S	S KH	H A T	Issued for approval

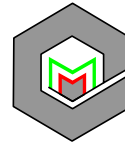


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DOCUMENT REVISION CLARIFICATION SHEET

PAGE	REV.1	REV.2	REV.3	REV.4	REV.5
1					
2					
3					
4	*				
5	*				
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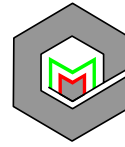


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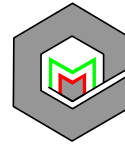


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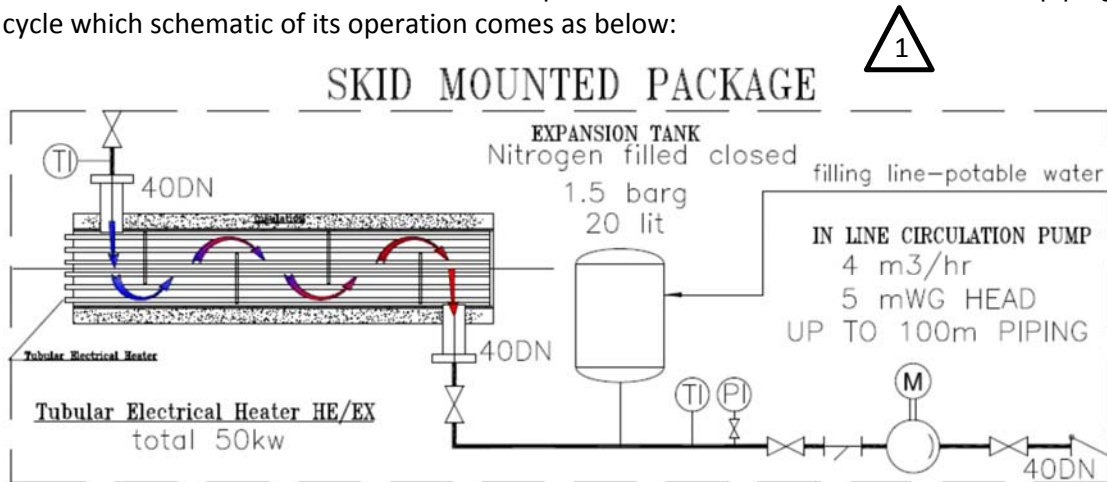
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1. TECHNICAL DATA

The present inquiry document covers the Briquetting warm water generation package and warm water circulating pump.

1.1. Description

An electrical water heater with an expansion tank will be installed in a closed piping cycle which schematic of its operation comes as below:



1.2. Technical Data

Electrical Heater:

Two set of 50 kW electrical heaters shall be installed in this tank, one operation and one for standby.

Line No.	Flow m ³ /hr	Temperature °C
INLET WATER	4	45
OUTLET WATER	4	55

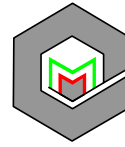


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Warm water pump:

ID	Pump Operation	Quantity		Capacity(m ³ /hr)	Differential Head(mH ₂ O)	Temperature (C)	Location Duty ⁽¹⁾	Operation Duty ⁽²⁾
		Operating	Stand by					
1	Warm water circulating pump	1	1	4	5	60	In door	continuous

2. SCOPE OF SUPPLY

The scope of work covers the design (Detail Engineering), procurement, manufacturing, factory testing, inspection, packing, erection activities, supervision, site testing and commissioning, spare parts list, guarantee and warranty.

The description of the system included in this inquiry does not relieve the supplier of his duties of supplying the system complete with all accessories necessary for proper operation.

2.1. Equipment Supply

Supplier is responsible to provide all equipment listed below, but not limited to:

- Electrical water heater shell & electrical heater tubes, 2 set 50kw, one for standby
- Warm water circulating pump, 2 set
- Interconnecting piping, fittings & valves as shown in above scheme
- Instruments (An appropriate P&ID must be proposed by Vendor)
- Expansion tank, 1.5 barg pressurized by inert gas, 20 lit
- Steel structure for skid
- Local control & Electrical Panel



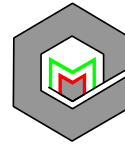


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2.2. Reference Standards



Manufacturer must follow relevant standards same as below:

DIN EN ISO 5199 - Technical specifications for centrifugal pumps

For other equipment, relevant standard must be specified in proposal.

2.3. Delivery

All equipment shall be properly protected and so packed as to prevent damage in transportation and storage and shall be delivered to site. It shall be noticed that components weight will be extracted to reach net weight.

2.4. Site testing and commissioning

The supplier shall be responsible for site testing, commissioning, and setting to work of the scope of supply.

2.5. Spare parts list and special tools

The supplier shall complete the attached schedule for special tools for installation and maintenance.

Supplier is also required to submit a separate quotation for recommended two years spare parts.

2.6. Warranty and guarantee

Supplier shall guarantee of satisfactory and trouble-free operation of the equipment under specified conditions for a period of one year from starting operation or 3 years from delivery of equipment whichever comes earlier.

Supplier shall undertake to supply the equipment package spare parts for a period of fifteen years after purchase date.

2.7. Needed Document for Proposal



- Preliminary P&ID
- Process Description
- Sub equipment Data sheets (including: Electrical Heaters, Pumps, Shell Material, Piping Material, Expansion Tank)
- Instruments & Valve Data sheets
- Preliminary General Arrangement
- Local control & Electrical Panel

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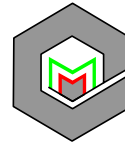


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3. QUOTATION SUMMARY SHEET

Any modification or addition to that referred in the specifications shall be specified in a schedule with technical data.

Description of Modifications or additions	Place of applied modifications or additions	Reason of modifications or additions

4. GENERAL PURCHASING SPECIFICATIONS

For general purchasing specifications, please refer to attached document: P08011102I0100.

5. Electrical Specification



The motor shall satisfy the requirements according to the following documents where applicable:

Document No. 1400 M TS EL 12 06 0012 Technical Specification for LV Motors

Document No. 1400 M TS EL 12 06 00 21 Electrical Specification for Package Units