

Project and process data

Complete what is known. Unknown items can be reviewed during technical clarification.

01 Project identity

COMPANY

PROJECT NAME / REFERENCE

CONTACT PERSON

BUSINESS EMAIL

COUNTRY / REGION

INDUSTRY / PROCESS

02 Heat duty and operating profile

Use actual process data when available; distinguish normal load from warm-up and peak demand.

NORMAL HEAT DUTY (kW / MW / kcal/h)

PEAK HEAT DUTY

MINIMUM OPERATING LOAD

WARM-UP TIME / START-UP LOAD

SUPPLY TEMPERATURE (deg C)

RETURN TEMPERATURE (deg C)

OPERATING HOURS PER DAY

DAYS PER YEAR

PROCESS USERS - reactors, dryers, presses, tanks, ovens, heat exchangers, etc.

03 Thermal fluid and circulation

THERMAL FLUID - brand / grade / type

TOTAL ESTIMATED SYSTEM VOLUME

FLUID MAXIMUM BULK TEMPERATURE

FLUID MAXIMUM FILM TEMPERATURE

FARTHEST USER / PIPE ROUTE LENGTH

MAXIMUM ELEVATION DIFFERENCE

CIRCULATION NOTES - existing pumps, redundancy, branch users, pressure-drop information

Fuel, site and supply boundary

Fuel quality, site conditions and project scope affect the complete system proposal.

04 Fuel and combustion

PRIMARY FUEL

BACK-UP / ALTERNATE FUEL

GAS PRESSURE OR LIQUID-FUEL VISCOSITY

LOWER HEATING VALUE

FUEL ANALYSIS / AVAILABILITY / STORAGE NOTES

05 Site conditions and utilities

SITE ALTITUDE (m)

AMBIENT TEMPERATURE RANGE

ELECTRICAL SUPPLY - V / phase / Hz

EMISSIONS LIMITS / PERMIT BASIS

AVAILABLE INSTALLATION AREA

INDOOR / OUTDOOR INSTALLATION

REQUIRED CODE, INSPECTION, CERTIFICATION OR DOCUMENT LANGUAGE

06 Preliminary supply scope

Tick items to be included in the proposal review. Final scope is defined in the confirmed quotation.

☐ Thermal oil heater body

☐ Burner and fuel train

☐ Circulation pump set

☐ Expansion and drain tanks

☐ Control panel / PLC / HMI

☐ Stack / chimney

☐ Heat-recovery equipment

☐ Valves and instruments

☐ Skid-mounted package

☐ Installation supervision

☐ Commissioning / training

☐ Spare parts

Final review and submission

Add any project constraints and identify the technical information available for review.

07 Additional requirements

CONTROL, REDUNDANCY, COMMUNICATION, FUTURE EXPANSION OR DELIVERY REQUIREMENTS

ATTACHMENTS AVAILABLE - layout, process flow, P&ID, fluid data sheet, fuel analysis, local code

08 Optional files to include

Do not delay an inquiry if some files are unavailable; list what can be supplied later.

- | | |
|---|--|
| ☐ Process flow diagram | ☐ P&ID or piping sketch |
| ☐ Equipment layout | ☐ Thermal-fluid data sheet |
| ☐ Fuel analysis / gas conditions | ☐ Local code or emissions basis |

09 Submission review

- | | |
|--|--|
| ☐ Units are stated for every value | ☐ Normal and peak duty are separated |
| ☐ Supply and return temperatures are stated | ☐ Fuel and electrical supply are stated |

Send the completed checklist to JIELI THERMAL

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