



**Special
Burner &
Equipment**

Special Burner & Equipment Srl
Sede Legale: Via Galvani, 9
35011 Campodarsego (PD)
Sede operativa: Via Dell'industria, 14
20883 Mezzago (MB)
Tel.: +39 049 9866300
e-mail: info.sbesrl@gmail.com

Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

Wasteserv Malta Ltd.

Eko Centre, Latmija Road
MSK4613 M'Skala MSK
MALTA

Project name: Incinerator
Project no.: -
Country: Malta
Our. Ref.: 19i11133

Components for
Diesel oil / tallow burner
1x 4,600 kW



Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

MAIN DESCRIPTION

Supply

Supply consists in design and manufacture of components suitable to convert actual ABS diesel oil burner to a double fuel burner with addition of tallow oil. Updating will permit to burner maximum tallow oil of 1,500 kg per day. It will be realize with:

- Oil gun
- Oil pumping and heater unit
- Automation cabinet
- Protection degree IP55
- Installation suitable for safety area
- Documentation in English
- Commissioning excluded (to pay with daily rate)
- Electrical drawing in EPLAN P8

GENERAL DATA		
HEATER:		INCINERATOR
ALTITUDE ABOVE SEA LEVEL :	m	240
AMBIENT / PREHEATED / GAS TURBINE EXHAUST :		AMBIENT
AMBIENT TEMPERATURE (MINIMUM / MAXIMUM / NORMAL) :	°C	10 / 30 / 15
RELATIVE HUMIDITY : (MINIMUM/MAXIMUM/NORMAL)	%	45 / 95 /
DRAFT TYPE (FORCED / NATURAL / INDUCED):		FORCED
REQUIRED TURNDOWN :		1 : 8
BURNER WALL LINING THICKNESS :	mm	-
HEATER SHELL THICKNESS :	mm	n.a.
COMBUSTION CHAMBER (LENGHT / DIAMETER):	m / m	- / -



Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

Combustion system

Light oil (LO) / Tallow oil (TO) burner components designed for safety area, includes:

- 1 (one) Oil gun suitable for pneumatic atomization with air, gun in AISI 316 and nozzle in AISI-310
- 1 (one) safety solenoid valves, 2/2 NC

Fuel oil skid

Oils skid with high pressure pumps designed for safety area and made in stainless steel includes:

- 1 (one) inlet manual valve
- 1 (one) operation keg
- 1 (one) double-filter
- 1 (one) high pressure pump with motor suitable for VSD control
- 1 (one) safety solenoid valves, 2/2 NC
- 2 (two) over pressure safety valves (one per heater and per keg)
- 1 (one) electric heater
- 1 (one) pressure switch
- 2 (two) pressure gauges
- 1 (one) oil temperature transmitters (one per heater)
- 1 (one) flexible pipe
- 1 (one) junction box for cable connection

It includes also compress air line for atomization:

- 2 (two) manual valves;
- 1 (one) air pressure controller 3/4";
- 2 (two) pressure switches;
- 1 (one) FRL System;
- 1 (one) solenoid valve, 2/2 NC, 1"



Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

Electrical cabinet

Electrical cabinet painted RAL 7035, IP 54

Preliminary dimensions: 1800x800x300 (HxLxW)

Electrical feeding: 400 Vac - 50 Hz.

Feeding system: c.a. 3Ph + N

Distribution system: TT type (with earth plant common for all the plant)

Max installed power: 15 KW

Electrical cabinet description

Front commands:

- Selectors and LED lamps for checking, control and reset of the plant
- Digital regulator (PID controller) with 4...20mA output to control the inverter speed.
- Burner management system HONEYWELL RM7850

Furthermore:

- Fan motor protection and control 9 kW
- Tallow oil pump motor protection and control 2,2 KW
- VSD for pump 2,2 KW
- Safety relay for emergency push-button
- Auxiliary transformer for AC circuit
- Auxiliary switching for 24Vcc
- Set of auxiliary relay for burner control
- Terminal for instruments and field interface



Special Burner & Equipment

Special Burner & Equipment Srl

Sede Legale: Via Galvani, 9

35011 Campodarsego (PD)

Sede operativa: Via Dell'industria, 14

20883 Mezzago (MB)

Tel.: +39 049 9866300

e-mail: info.sbesrl@gmail.com

Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

Electrical cabinet and devices are in conformity to CEI rules, with reference to:

- CEI EN 61439-1
- CEI EN 60204 and modification
- CEI EN 60445 (CEI 16-2)
- CEI EN 60073 (CEI 16-3)
- CEI EN 60446 (CEI 16-4)
- CEI EN 60447
- CEI EN 61293

Documentation:

- Report of the electrical tests required by the CEI rules, with:
 - Cabinet controls, cables connection check and logic tests;
 - Dielectric test;
 - Test of protection values and protection circuit continuity
- Documentation in English printed and in electronic version (PDF)

Electric engineering and design

- As built electrical drawing with tables and devices installed list;
- List of terminal trip;
- Cables list;



Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

SUPPLY LIMITS

ELECTRICAL CONNECTIONS: Junction box on board the burner in terminal trip in electrical cabinet (included). Field connection, between electrical cabinet and burner junction box, excluded.

GROUNDING: Junction box on board the burner in terminal trip in electrical cabinet (included). Field connection, between electrical cabinet and burner junction box, excluded.

TALLOW OIL: Ball valve train inlet- outlet flanges (included)

COMBUSTION AIR: Fan's flange.

MISCELLANEOUS (excluded): Excluding classification of areas at risk; any calculation of risk atmospheric discharges; waste disposal.

Also they excluded:

- Instrumentation outside battery limits: temperature, level, pressure
- Automation and control electrical cabinet
- Mechanical and electrical assembly in field
- Part Power and control in addition to that indicated
- Plant erection and commissioning
- Practices customer competence
- Transportation, loading, unloading and handling materials
- Assembly assistance, start-up and to run
- Electric cables
- Burner
- Light oil pumping unit



Special Burner & Equipment

Special Burner & Equipment Srl
Sede Legale: Via Galvani, 9
35011 Campodarsego (PD)
Sede operativa: Via Dell'industria, 14
20883 Mezzago (MB)
Tel.: +39 049 9866300
e-mail: info.sbesrl@gmail.com

Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

BUDGET PRICE

1	Components for burner ABS:	€ 41.740,00
1.1	Tallow oil for gun for actual burner	
1.2	Tallow oil pumping unit	
1.3	Electrical heater	
1.4	Electrical cabinet	
	TOTAL AMOUNT	€ 41.740,00
	VAT	Excluded
	Note	Saving to be define

PAYMENT

To be define

BANK DATA

IBAN:



SUPPLY: EXW Campodarsego (PD) - Italy



Special Burner & Equipment

Special Burner & Equipment Srl
Sede Legale: Via Galvani, 9
35011 Campodarsego (PD)
Sede operativa: Via Dell'industria, 14
20883 Mezzago (MB)
Tel.: +39 049 9866300
e-mail: info.sbesrl@gmail.com

Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

COMMISSIONING

Excluded. Daily rate invoice.

STORAGE OF MATERIALS: It is the customer's responsibility to maintain the goods stored in a safe, dry and sheltered. SBE does not assume responsibility for any damage to equipment due to failure to comply with the above rules.

PACKAGING:

Cardboard box for small package. Pallets, crates or wooden boxes, to be quoted separately.

DELIVERY:

To be determined according to the official date of the order. Normally the delivery is of (12-14) weeks after engineering approval by the customer.

EXPIRATION PRICES:

SBE reserves the right to revise and resubmit its offer (based on current market conditions) for acceptance by the customer after receiving complete technical information. All prices are based on respect for a predetermined delivery schedule. Any delays, in reference to the agreed delivery period, could delay the delivery of materials and could also increase the price of the system and / or components.

TECNICAL DOCUMENTATION:

CE Conformity declaration.

Instruction and operating manual

Documentation will be supplied in paper (1 copy) and electronic format (on CD, PDF files) in ENGLISH language. Translations in other languages to be quoted separately on request.

SPARE PARTS: We will quote spare parts for commissioning and after order



Special Burner & Equipment

Special Burner & Equipment Srl
Sede Legale: Via Galvani, 9
35011 Campodarsego (PD)
Sede operativa: Via Dell'industria, 14
20883 Mezzago (MB)
Tel.: +39 049 9866300
e-mail: info.sbesrl@gmail.com

Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

COMMISSIONING AND SITE MANAGEMENT: Unless otherwise stated the service department for installation, start-up of machines and education personnel is not included in this proposal. The cost performance will be quantified as a function of the type of service requested, according to the current rates.

EXCEPTION AND GENERAL CONDITIONS: Exclusions Burner installation, Safety and control instruments which are not of the burner, Electrical connections and cables between the electrical panel and the accessories in field, Transportation, Piping and ducts, PLC and DCS of the plant and of the burner, Mechanic, electric and instruments assembly in field, Load, unload and handling of goods, Compressors, Manuals exceeding our standard ones, Fuel and combustants measuring, Fuel strainer / filters, Start-up and commissioning, Safety instruments and temperature regulation, Control instruments for under pressure in the combustion chamber, Insulation - refractory materials. If not specifically written in the following proposal, are not included in scope of supply: delivery, safety elements, parts and additional materials to fix the machines, anchor bolts, support structures in general, foundations, brackets and pipe supports, accessory for mechanical and electrical installation, existing structures modifications, on-site visits and field surveys, although not expressly mentioned in the offer.

Machines and parts of the proposed system are estimated based on technical information available at the time of quotation. SBE reserves the right to modify the design and its amount, updating the bid in the event of a change of project data.

It's a customer responsibility, verify the compatibility of the proposed equipment and used materials with the working environment, and with the products to be handled.

GUARANTEE:

Facilities and equipment of new supply are guaranteed for 12 months from commissioning and in any case not later than 18 months from communication of "goods ready for shipment".

Warranty substitution for defective materials is free of charge ex-works Campodarsego during warranty period. Warranty is not applicable if equipment were opened or damaged by personal not authorized. Technicians intervention costs (service and travel costs), for repair or replacement of warranted parts, will be invoiced at the prices indicated in the "Technical Support".

Electrical wear parts are excluded from the warranty.



Special
Burner &
Equipment

Special Burner & Equipment Srl

Sede Legale: Via Galvani, 9

35011 Campodarsego (PD)

Sede operativa: Via Dell'industria, 14

20883 Mezzago (MB)

Tel.: +39 049 9866300

e-mail: info.sbesrl@gmail.com

Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

The warranty does not extend the obligation of damages or failure caused by the failure or malfunction of machinery and / or equipment supplied by us.

The warranty is void with immediate effect in the event that the equipment has been tampered without our consent confirmed in writing, or mounted in a way not corresponding to our drawings and if the commissioning have been done without the presence of SBE's technicians.

PAINTING: Painting will be as per SBE standard. Different painting cycles will be quoted on request

Best Regards

Special Burner & Equipment S.r.l.



Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

GENERAL SALES CONDITIONS

1. Definitions

1.1. SPECIAL BURNER & EQUIPMENT S.R.L. (hereinafter SBE) is an industrial company engaged in the design, manufacturing, and sale industrial burners, including the design and manufacturing of special products to be installed as part of a process plant, as better explained in the sections of the operating and maintenance manual relating to permitted use, technical characteristics, limits of use, and specifications of the manufacturer.

1.2. The SBE Organisation includes all the Individuals/Companies that on the basis of specific negotiations, functions, and territorial positioning, take part - with their own means and resources - in the Distribution, Sale, Installation and Authorised Technical Support activities.

1.3. The Customer is the entity - either an individual or a legal entity - that purchases SBE products or services for objectives exclusively related to commercial, distribution, industrial, craft, or professional activities.

1.4. The User is the final Recipient of the products or services supplied by SBE, or the entity supplied by the SBE Sales Network - or third party companies - with burners, accessories, technical manuals, and whatever else may be necessary for the use, as well as the informed and responsible operation, of the products.

2.0. In General Terms

SBE supplies and services are covered by the following General Sales Conditions (GSC). Even when not undersigned, but simply recalled, such conditions constitute an integral part of the relationship, and are considered as fully known and accepted by the Customer when issuing the order. Any other agreements and conditions shall be binding and valid only if confirmed in writing by SBE. These GSC replace any previous conditions, and are valid starting from 27/07/2015.

3.0. Order, Order Confirmation and Amendments

As far as object, specifications, consistency, price and nature of the SBE supply - including the study and the realisation of special products -, the order confirmation shall apply. Any materials, services, or else, not specifically mentioned by the same, shall be considered as not included, and shall therefore be the subject of additional invoicing. After 8 days from the order confirmation - unless otherwise promptly communicated in writing by the Customer -, each and every note, specification, and content transmitted, shall be considered binding. Modifications, requests of amendments, and/or cancellations of orders require the written agreement of SBE, with the corresponding debit to the Customer.

3.1. The Offer and the Order Confirmation presume (amongst others) that the Customer, as a specialist, informed and trained professional (ref.1.3.), shall always forward in advance to SBE the necessary data, technical information, as well as any other details for the informed fulfilment of the contractual obligations of supply. This also with particular reference to the location and the plant where the burner will be installed, as well as any auxiliary devices and feeding systems, together with any legal requirements - including specific, general, or territorial requirements - that may be different or additional to the standards of conformity confirmed and undersigned by SBE.

Any complaints, faults, criticality, damage and/or else due to dubious, imprecise, or absent information, as well as failure to comply with the installation/first start-up technical and regulatory requirements, shall relieve SBE from all responsibilities and effects that may be linked with the same.

4.0. Prices, Payments and Ownership of the Goods

Unless otherwise agreed pursuant to clause 3.0., all prices are EX SBE warehouse. They do not include commissioning, civil, electric or hydraulic works, or materials and/or services not specifically indicated in the Order Confirmation. The supply payments refer to a specific sale: they cannot be considered binding for subsequent supplies, or deemed as valid in case of variations in labour and/or raw material costs.

4.1. The payment conditions indicated in the offer are also binding. Missing payments, delays and/or partial payments of amounts and failure to comply with the due dates indicated in the invoice shall result, without prejudice to any other actions deemed necessary, in the interruption of any supplies and the application - for the unpaid amounts - of interest at the legal rate.

4.2. It is implicit that SBE reserves the right of ownership of the supply until the total payment of the agreed price (pursuant to art. 1523 and subsequent amendments and modifications of the Italian Civil Code). During this period, the Customer shall undertake the responsibilities and the obligations of storage of the supplies, with the commitment to safeguard and protect them from damage, destruction, loss, etc. All this notwithstanding the fact that for such period the goods object of the supply may be reclaimed by SBE irrespective of their actual location. This also applies for goods already joined or incorporated to goods owned by the Customer or by third parties, for which the laws applicable to appurtenances and accessions do not apply.

4.3. The Customer shall immediately inform SBE of any preservative or executive actions promoted by third parties, as well as of any removal or transfer of the goods supplied.



Special Burner & Equipment

Special Burner & Equipment Srl

Sede Legale: Via Galvani, 9

35011 Campodarsego (PD)

Sede operativa: Via Dell'industria, 14

20883 Mezzago (MB)

Tel.: +39 049 9866300

e-mail: info.sbesrl@gmail.com

Date	06.02.2020
Ref.	Gandini M.

DOC. No.	19i11133.34.20
Rev.	0

5.0. Transport and Delivery

The responsibility of SBE for the delivery of the goods shall always be finished at the SBE Plant or Warehouse, even in case of free delivery conditions. For this reason, it must be clarified that the supply - with or without packaging - travels on behalf and at the risk of the Customer. This also applies when the Customer asks/authorises SBE to select the Carrier. On the other hand, SBE generally expressly rejects all responsibilities in connection with costs, damage, delays, and/or correct execution of the shipment

5.1. The delivery terms are always indicative and never imperative. The actual working days shall be taken into account, extended by right in case of Force Majeure. Although committed to comply with the time scales indicated, SBE shall not be held responsible for any damage or loss resulting from delayed or missing delivery of the goods. In this respect, the Customer shall not be entitled to any reimbursements, compensation or extension of the agreed payment terms. The obligations of SBE shall expire with the delivery of the goods as indicated in section 5.0.

6.0. Responsibilities

Notwithstanding the exclusions outlined above, it must be clarified that any information, technical information, sizes, performance capabilities, capacities indicated in price lists, leaflets, website, and published material on SBE Products are to be considered as only valid for information and promotional purposes. Therefore, they shall in no way be binding for the purpose of negotiations, transactions, or commercial relations.

SBE reserves the right to modify at any time, without notice, the products, and the content of such information.

6.1. The Customer shall have the duty and the responsibility to inform SBE of the need for obtaining specific approvals and/or to comply with specific regulations considered binding for the supply, installation, and start-up of the Products.

7.0. Jurisdiction and Competent Tribunal

The GSC, as well as any contracts, offers, and orders, shall be regulated by Italian Law. Any disputes relating to the same shall be exclusively subjected to the Italian Jurisdiction. The competent tribunal shall be the Tribunal of Padua.

Campodarsego, 09/09/2015