

TRINSEO

ALTUGLAS S.r.l
Via Pregnana, 63
20017 RHO MI

Porto Marghera (VE), 27/05/2022

Prot n: 29/2022

Trasmissione a mezzo PEC

Spettabile
Ministero della Transizione Ecologica
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00147 Roma
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Ricerca Ambientale (ISPRA)**
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Spettabile
**ARPA Veneto – Dipartimento provinciale
di Venezia**
dapve@pec.arpav.it

**OGGETTO: Altuglas S.r.l. Stabilimento di Porto Marghera (VE) – Richiesta di proroga
prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto
AIA n. 182/2021.**

La presente costituisce la richiesta di proroga rispetto alle tempistiche di cui alla prescrizione n.11 al paragrafo 10.4.1.1 a pagina 124 e di cui alla prescrizione in nota (1) alla Tabella 1, riferita alla sola emissione di cloro del camino E09, del medesimo paragrafo 10.4.1.1 del PIC del Decreto di Riesame AIA 182/2021 dello Stabilimento Altuglas di Porto Marghera.

Per motivare tale richiesta si allega una relazione in cui è indicato lo stato di adempimento delle citate prescrizioni e le richieste del Gestore.

L'occasione ci è gradita per porgerVi cordiali saluti.

Il Direttore di Stabilimento
Dott. Antonio Guida

ALTUGLAS S.r.l.
Via Della Chimica, 5 – 30176 Porto Marghera VE
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Sede Legale: Via Pregnana, 63 – 20017 Rho MI Italia Capitale Sociale Euro 10.000.000
C.F. e P. IVA e N. iscrizione Registro delle imprese MI – MB – LO – 1141675096

ICARO



Stabilimento di Porto Marghera

Prescrizione PIC

Di cui al Decreto MITE di Riesame AIA 182/2021

**Richiesta di proroga prescrizione n.11 e nota (1)
tabella 1 di cui al paragrafo 10.4.1.1 del PIC del
Decreto AIA**

Progetto n. 225021
Revisione: 00
Data: Maggio 2022
Nome File: 225021_Richiesta prorogaPrescr11_Par10.4.1.1_PIC_rev01.docx

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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INTRODUZIONE

La presente costituisce la richiesta di proroga rispetto alle tempistiche di cui alla prescrizione n.11 al paragrafo 10.4.1.1 a pagina 124 e di cui alla prescrizione in nota (1) alla Tabella 1, riferita alla sola emissione di cloro del camino E09, del medesimo paragrafo 10.4.1.1 del PIC del Decreto di Riesame AIA 182/2021 dello Stabilimento Altuglas di Porto Marghera, ai sensi delle quali:

- *“(11) Entro 12 mesi dal rilascio dell’AIA di cui al presente procedimento deve essere installato e messo a regime un sistema di abbattimento delle emissioni convogliate al camino E09. Sarà comunicata all’AC l’ottemperanza. Il Gestore deve dare inoltre comunicazione all’Autorità Competente e di Controllo della messa in servizio del sistema di abbattimento”*
- Tabella 1 (omissis)

“Note:

(1) Da ottemperare entro 12 mesi dal rilascio dell’AIA di cui al presente procedimento; in tale periodo transitorio: VLE per Cl₂ = 10 mg/Nm³; VLE per HCN = 5 mg/Nm³. I limiti di concentrazione prescritti, a regime e nel periodo transitorio, prescindono dai flussi di massa e dalle soglie di rilevanza”.

A seguire si riporta la valutazione sullo stato di adempimento delle prescrizioni in esame e la richiesta di proroga corredata delle relative motivazioni.

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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1. RICHIESTA DI PROROGA PRESCRIZIONE N.11 E NOTA (1) TABELLA 1 PARAGRAFO 10.4.1.1 PIC DECRETO AIA

Il Gestore intende dichiarare, rispetto alle prescrizioni in esame, il relativo stato attuale di adempimento con quanto descritto a seguire.

Il Gestore, a seguito dell'emissione delle prescrizioni AIA in esame, ha dato inizio alla fase di ricerca e selezione del fornitore dell'impianto di abbattimento da installare al fine di garantire il rispetto del nuovo valore limite per l'emissione di cloro al camino E09, cui è seguita l'offerta del fornitore individuato datata 16/09/2021 (**allegato 1**) che riporta al relativo capitolo 4 le caratteristiche tecniche dello scrubber ed è corredata dei relativi PID (**allegato 2**).

A seguito della prima offerta del 16/09/2021, ci sono stati vari incontri di perfezionamento con il Gestore per allinearla alle esigenze progettuali del sito fino ad arrivare ad una revisione finale datata 28/10/2021 (no. SW-63-21-07995 CI2 / HCN Scrubber Rev F).

L'offerta indicava (vedi paragrafo 3.4) la consegna delle apparecchiature entro 18-20 settimane (circa 5 mesi) dalla data del contratto.

All'offerta è seguito l'ordine da parte dello Stabilimento n.3100001891 del 04/11/2021 e i termini generali della vendita del 15/11/2021 firmati sia dal sito che dal fornitore riportati rispettivamente agli **allegati 3 e 4**.

La consegna delle apparecchiature è avvenuta in data 30/03/2022 (secondo i 5 mesi previsti da offerta). Tale evidenza è costituita dal documento di trasporto riportato in **Allegato 5**.

Al ricevimento delle apparecchiature risultavano mancanti le seguenti:

- Pompe di reintegro del reagente

per cui è stato necessario segnalarlo al fornitore che ha provveduto a consegnarli in data 04/05/2022 (**Allegato 6**).

L'installazione del sistema di abbattimento (scrubber) al camino E09 si è quindi avviata all'arrivo delle apparecchiature e si è conclusa (compreso i collegamenti elettrici e meccanici) nella settimana 2-6/05/2022. A tale fine si riportano in allegato le relative evidenze costituite da:

- Scheda tecnica del fornitore riportata in **Allegato 7**
- Foto del sistema di abbattimento in impianto riportata in **Allegato 8**

Il fornitore ha inoltre indicato il seguente cronoprogramma di realizzazione definitivo, da cui si evince che la consegna sarebbe stata garantita entro il 25/03/2022:

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Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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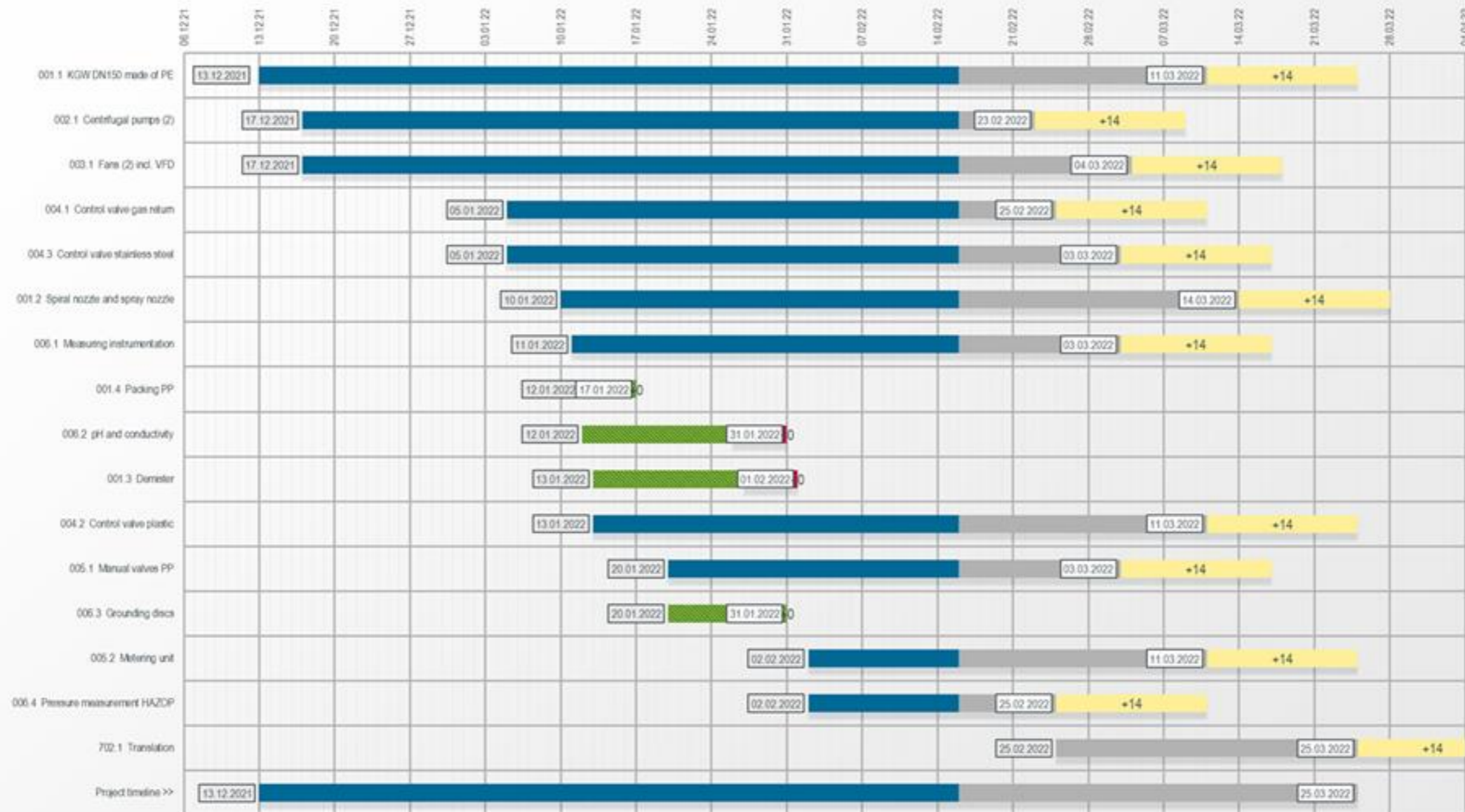
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SW-65-21-01524 Altugas



Legend: ■ Progress ■ Delivered ■ Delay ■ Purchasing period ■ Time remaining ■ Delivery time

Prescrizione PIC

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Il sistema, installato entro la scadenza richiesta, era quindi pronto all'avvio a partire dal 09/05/2022 e successivamente sono state eseguite le ultime verifiche di funzionalità e tarature a cura del fornitore nelle date del 11 e 12/05/2022.

Per verificare la funzionalità del nuovo sistema rispetto all'esigenza di garantire il nuovo valore limite di emissione per il cloro al camino E09 di cui alla prescrizione in nota (1) alla Tabella 1, si è quindi provveduto con i campionamenti del laboratorio esterno nelle date del 17-19-25/05/2022.

Tuttavia, dai primi campionamenti è emerso che le prestazioni del nuovo impianto, nonostante quanto indicato dal fornitore in sede di offerta, ad oggi **non sono in grado di garantire il rispetto del nuovo valore limite emissivo per il cloro**, fermo restando il pieno rispetto del valore limite ad oggi ancora temporaneamente in vigore.

Il Gestore, anche d'intesa con il fornitore, si è quindi attivato con le necessarie attività di studio per capire le ragioni dei problemi del nuovo sistema, anche mediante ricerca delle condizioni operative che garantiscano il rispetto del nuovo limite emissivo prescritto.

Ad oggi le attività di studio e verifica necessarie al fine di individuare le cause dei problemi riscontrati al nuovo sistema di abbattimento appaiono più complesse del previsto, senza considerare l'ulteriore tempo occorrente per intraprendere, una volta individuate, le necessarie azioni correttive, potendo in ipotesi rendersi necessario variare le condizioni di esercizio o addirittura apportare delle modifiche di funzionalità al sistema di abbattimento già installato.

Di conseguenza, tale imprevista situazione non permette di trarre nei tempi richiesti il rispetto delle prescrizioni in oggetto, ovvero 12 mesi dalla pubblicazione del provvedimento AIA in Gazzetta Ufficiale (03/06/2021), quindi la **scadenza del 03/06/2022**.

* * *

Sulla base delle motivazioni che precedono, corredate dalla documentazione qui allegata, il Gestore **richiede una proroga di almeno 6 mesi** rispetto ai tempi previsti da entrambe le prescrizioni in oggetto, impegnandosi a tenere periodicamente informata codesta spettabile Autorità Competente sullo stato di avanzamento dell'adempimento alla prescrizione e, a seconda delle azioni correttive che saranno individuate come necessarie, sugli eventuali ulteriori tempi occorrenti per finalizzare le attività di messa in funzione a regime del sistema di abbattimento in relazione all'emissione di cloro del camino E09.

In considerazione dell'imminente scadenza dei termini di cui alle prescrizioni in oggetto (ossia 3 giugno 2022), si resta pertanto in attesa di un cortese riscontro da parte di codesta spettabile Autorità Competente in merito alla richiesta di proroga dei termini di cui sopra, confidando sin da ora in un suo positivo accoglimento.

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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ALLEGATO 1 – OFFERTA DEL SISTEMA DI ABBATTIMENTO SCRUBBER



Quotation

SW-63-21-07995

Cl₂ / HCN Scrubber

Customer	ARKEMA
Revision	CD
Date	16.09.2021
Author	S. Kemmer
Department	LPT - 2.6.11 Scrubber Systems

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1 Contact Persons

ARKEMA

Name	Fabrizio Mainardi	Position	Organizzazione acquisti
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Phone	+39(0)4.12.91.24.44	Mobile	
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E-mail	fabrizio.mainardi@arkema.com		
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GEA Customer Service

Name	Alessandro Gigliotti	Position	Sales Engineer Chemical Solutions
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GEA Wiegand GmbH

Name	Sebastian Kemmer	Position	Senior Project Manager
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Phone	+49 7243 705 402	Mobile	
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E-mail	Sebastian.kemmer@gea.com		
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GEA Wiegand GmbH
 Am Hardtwald 1, 76275 Ettlingen, Germany
 Sitz der Gesellschaft / Registered Office: Ettlingen
 Registergericht / Court of Registration: Amtsgericht Mannheim, HRB 360206
 Geschäftsführung / Management Board: Dr.-Ing. Christopher Braun (Vorsitzender / Chairman), Frank Börner, Andre Krychowski
 Umsatzsteuer-Identifikationsnummer/VAT Number: DE811154462
 Deutsche Bank Karlsruhe (BLZ 660 700 04) 794 875, Steuer-Nr.: 105 5857 1004
 IBAN: DE91 6607 0004 0079 4875 00; BIC: DEUTDESM660

2 General Information

2.1 Presentation of our Company

GEA Wiegand is a key technology center within the GEA Group and is internationally renowned for its evaporation, distillation and membrane filtration systems, vacuum systems, jet pumps, mixers, steam jet cooling systems and gas cleaning systems.

Thanks to our fully equipped in-house test center, GEA Wiegand can support customers in the earliest phases of project development by providing laboratory and pilot trials to determine product characteristics before scaling up the project to an industrial level. GEA Wiegand has an extensive database including more than 1,000 products, with new products being tested and added each year. Most pilot systems are mobile so that tests can also be carried out at the customer's premises, with the possibility of controlling and monitoring the systems via a remote control facility.

About 200 employees are competently planning and managing our systems and projects at our headquarters in Ettlingen, Germany. GEA Wiegand pursues an integrated approach covering the entire project - from cost accounting, design engineering and manufacturing right up to system delivery, quality control and commissioning.

GEA Wiegand has representative offices in many countries throughout the world. With more than 10,000 systems delivered worldwide, GEA Wiegand is able to provide reference systems in most countries.

2.2 General Information on Gas Scrubbers

For more than 40 years we have been engineering, building and delivering gas scrubbers for the widest variety of applications - from individual components to complete, fully controlled exhaust gas cleaning systems. Our test center features several mobile test facilities as well as all necessary analytical and measurement equipment to help us choose and design the optimum system for each particular case.

We specialize in jet and venturi scrubbers which are used in the process and environmental engineering sector to clean and remove dust from exhaust air, absorb gaseous pollutants, separate aerosols and cool gases, and which provide high levels of efficiency.

We offer a whole range of scrubber types which can also be combined depending on the type of application. The performance range includes gas flow rates of 0.05 m³/h to approx. 300,000 m³/h and exhaust gas temperatures up to 1,300 °C. Jet gas scrubbers are particularly suited to explosive gas mixtures, highly corrosive gases and gases with high dust loads.

Our scope of supply starts with the engineering phase and is complete when the entire system has been delivered and commissioned according to your wishes and needs. Quality awareness and reliability are essential elements of our company policy. We are of course certified according to the usual standards such as DIN ISO 9001 and ASME U Stamp.

3 Commercial Terms

3.1 Fixed Price

The price of the supplies and services specified in our quotation is

Item	No.	Description	Price, EURO
10	1	Compact has scrubber DN150 made of PE as described in chapter 4	141.400,--
20	1	Installation: 1 service technician for 2 days incl. all travel costs and accommodation.	3.900,--
30	1	Commissioning: and start-up 1 process engineer for 2 days incl. all travel costs and accommodation.	4.800,--
41	1	Participation in HazOp study 1 process engineer for 2 days via online video call	Included in base price
42	1	Participation in HazOp study 1 process engineer for 2 days in Porto Marghera	4.800,--
50	1	DAP shipment to Porto Marghera (Italy)	2.700,--
Project price for Item No. 10, 20, 30, 41 and 50:			147.400,--

3.2 Validity of Quotation

Please note that raw material prices for plastic material have increased by approx. 40% since the beginning of 2021 and are continuing to rise. We can only guarantee a price validity of 4 weeks from the date of this offer.

3.3 Terms of Payment

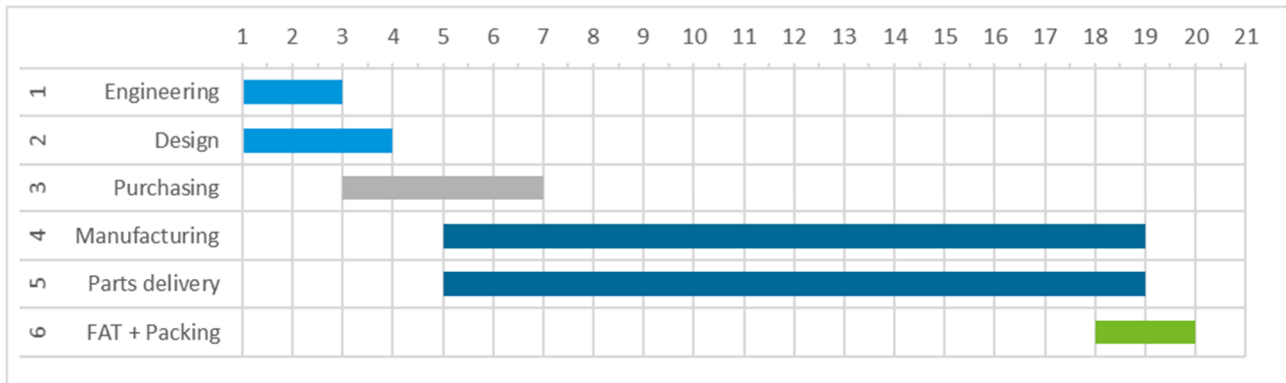
30 % upon receipt of order, issuance of order confirmation

70 % upon completion, notice of readiness for shipment

Down payment is due within 30 days, all other payments are due 30 days after the corresponding request for payment. All prices are net prices.

3.4 Delivery Time and Terms of Delivery

The equipment will be ready for shipment **within 18 - 20 weeks**, calculated from the date of our written agreement, provided that payments and letter of credit (if any) are received as stipulated in the terms of payment.



Delivery will be FCA, from Germany according to Incoterms 2020.

3.5 Warranty Period

The warranty period is 12 months from the date of commissioning, however no longer than 18 months from delivery or notice of readiness for shipment.

3.6 Conditions for Process Guarantees

When an order is placed, GEA provides the process guarantees that are expressly specified in chapter 4 Technical . Unless indicated otherwise, all guaranteed values are subject to a tolerance of $\pm 5\%$. These guarantees are based on the technical data indicated in chapter 4 and are subject to the provisions of the attached General Conditions of Sale of GEA and any possible additional conditions or requirements included in this quotation. All other technical values included in this quotation are merely guideline values and are not binding for GEA.

As far as the terms “warranty”, “guarantee” / “warranted properties” / “warranted parameters” or similar terms are used in this contract, these are deemed to be binding property agreements, but not dependent warranty promises according to BGB [*German Civil Code*].

The customer is responsible for ensuring trouble-free and safe system operation within the defined mechanical design conditions.

3.7 CE Marking

If expressly agreed upon, each system component will be delivered with a corresponding CE mark.

Marking according to the Machinery Directive is possible for specific parts of a system. In the case of self-contained systems it must be evaluated if the Machinery Directive is complied with. CE marking and the corresponding documentation is included in the quoted price.

In some cases, which are listed below, the system does not have to be CE-marked and in these cases no CE mark can be provided:

- CE marking according to the Pressure Equipment Directive (PED) is not possible for the system as the components are not subject to the PED.
- Marking according to the explosion protection directive (ATEX) is not possible as the scrubbers are not subject to the ATEX directive and can therefore not receive a corresponding CE mark. In this case the only thing possible is to issue a Manufacturer's Declaration.

3.8 Material Resistance

The materials to be used for the system components and specified in the scope of supply have been selected in agreement with the customer. The supplier warrants that these materials comply with the corresponding material specifications and that first-class and new materials are being used.

The customer is responsible for verifying and ensuring that the selected materials meet the resistance requirements in terms of corrosion, erosion and abrasion. GEA Wiegand will provide corresponding resistance lists upon request.

The systems parts and vessels are manufactured with due regard to the agreed specifications. Unless agreed otherwise, vessel execution corresponds to the GEA Wiegand specifications.

Our warranty does not apply to wear parts and excludes damage caused by mechanical stress, by poor maintenance and inappropriate storage at the customer's premises, by corrosion or abrasion, by repair work carried out inexpertly by the owner or third parties, as well as by other conditions or circumstances not attributable to the supplier.

We further decline any responsibility for additional terms that were not known to us at the time of delivery or which were not foreseeable.

3.9 Right of Modification

We reserve the right to make changes with respect to the system's chemical, thermal and constructive design and, in this context, to the scope of supply if we consider these changes appropriate and if these changes do not affect the specified performance and consumption data or substantial interests of the buyer. Any change requests by the customer having an effect on costs and deadlines shall be agreed in writing within 5 days in an amendment to the contract.

3.10 Services after the Commissioning Process

Complete system assembly, installation of system components and connections to supply and discharge lines on site shall be carried out by others.

Upon request and against payment, GEA Wiegand GmbH will provide a technical supervisor for the assembly process, for assembly supervision, commissioning support and training. Payment will be calculated in line with our "Invoicing Guidelines of Services" and our "Invoicing Guideline Installation and Commissioning".

The customer has to provide qualified assembly and commissioning personnel (control engineers, mechanical engineers and operating personnel).

3.11 General Conditions of Sale

Orgalime General Conditions for the Supply and Erection of Mechanical, Electrical and Electronic Products SE01 (Brussels, Sept. 2001) shall apply.

In deviation from standard clause 71 of the Orgalime SE 01 the following wording shall apply:

Notwithstanding any other provision of the Contract but except only (i) to the extent of any liquidated damages provided for in this Contract, and (ii) to the extent the exclusion of Contractor's liability is prohibited by applicable law (in which circumstances Contractor's liability shall only be limited to the extent permitted by applicable law), under no circumstances, whether by reason of breach of contract or statutory duty, negligence or other tort, indemnity, breach of warranty or otherwise, shall Contractor be liable for any loss of profit, loss of business, loss of use (including plant downtime or delays), loss of or damage to any product, feedstock, utilities or raw materials, loss of production, loss of revenues or loss of contracts, contractual liability or liquidated damages payable by Purchaser to any third party, or for any costs or losses associated with resulting business changes (including product recall costs), or for any special, indirect, punitive, exemplary, incidental, economic or consequential costs, losses or damages of any description, howsoever caused.

In deviation from standard clause 73, the following is valid:

The contract and any claim arising out of or in connection with its performance shall be governed by and construed in accordance with the substantial laws of Switzerland excluding however its conflict of law's provisions ("IPRG").

Exclusive venue shall be Zurich (City), Switzerland.

Specific contract modifications and deviations must be agreed in writing.

In case of any inconsistency the contract documents shall apply in the following order of precedence:

1. This Quotation
2. [Orgalime SE 01](#)

3.12 Limitation of Liability

(i) Liability for the following is excluded: loss of profit, loss of business transactions, loss of use (including system downtime and delays), damage to or loss of products or raw materials and machinery and equipment, the customer's contractual liability or lump-sum compensation to a third party, costs in connection with subsequent transactions (including costs for recalls as a gesture of goodwill), interest expense and loss, additional production costs or pure financial losses.

(ii) The contractor's liability for damages and/or reimbursement of expenses, contractual penalties, reductions (including any claims arising from the breach of guarantees), irrespective of the legal basis, shall be limited to the order value.

(iii) The limitations of liability according to paragraphs (i) and (ii) shall not apply

a) if the parties have agreed a lump-sum compensation and

b) in the case of intent and gross negligence,

c) as far as compensation for personal injury is concerned.

iv) The above paragraphs i) - iii) shall apply mutatis mutandis to tortious claims of the customer against employees or subcontractors or other vicarious agents of the contractor.

3.13 Force Majeure / COVID-19

Goods and/or services offered by GEA may be negatively affected by the current developments and measures which are taken worldwide, nationally and locally with respect to the public health emergency declared by the World Health Organization in connection with the COVID-19 pandemic. Although GEA is making every effort to mitigate potential supply impacts, please note that our selection of suppliers/subcontractors, our delivery times, our engineering and/or local services, quotation prices, etc. may be affected by the COVID-19 pandemic.

Such adverse effects may, in particular, be caused by, or occur in response to, measures taken by any government or authority (including the imposition of embargoes or import or export restrictions, quarantine orders, travel restrictions or other restrictions or prohibitions, and compliance with relevant laws or governmental orders, rules, regulations, instructions, recommendations or precautions by GEA or any of its subcontractors at any level). The coronavirus pandemic and its effects may also lead to excessive staff illness rates, difficulties or increased costs in obtaining labor or goods, inability to move goods or people across borders, other travel or mobility restrictions, shortage of personnel and/or material, delays or other adverse circumstances affecting the delivery of goods or services.

Accordingly, GEA reserves the right to demand an extension of the indicated deadlines and/or to charge additional reasonable costs if GEA's schedule is adversely affected and/or GEA incurs additional costs as a result of the aforementioned circumstances.

3.14 Confidentiality and Non-Use

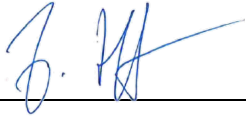
Any information, including this quotation, are confidential information of GEA protected by copyright and may neither be disclosed to third parties nor be used for any purposes other than to assess whether an order is to be placed with GEA. GEA reserves all rights to this information, including all intellectual property rights with regard to this information. The confidentiality provisions of the attached General Conditions of Sale of GEA shall also apply.

The customer shall ensure that documents provided to him by the supplier, such as drawings, plans, calculations, etc. are treated confidentially and are not made accessible to third parties without the written consent of the supplier.

The customer shall only be entitled to use contractual information or parts of the contract for advertising purposes with the prior written consent of supplier.


GEA Wiegand GmbH

Date: 16 September 2021



i. V. Felix Ortloff

Head of GEA Wiegand Gas Scrubber Dept.



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Wiegand GmbH
Hardtwald 1 - 76275 Ettlingen - Germany

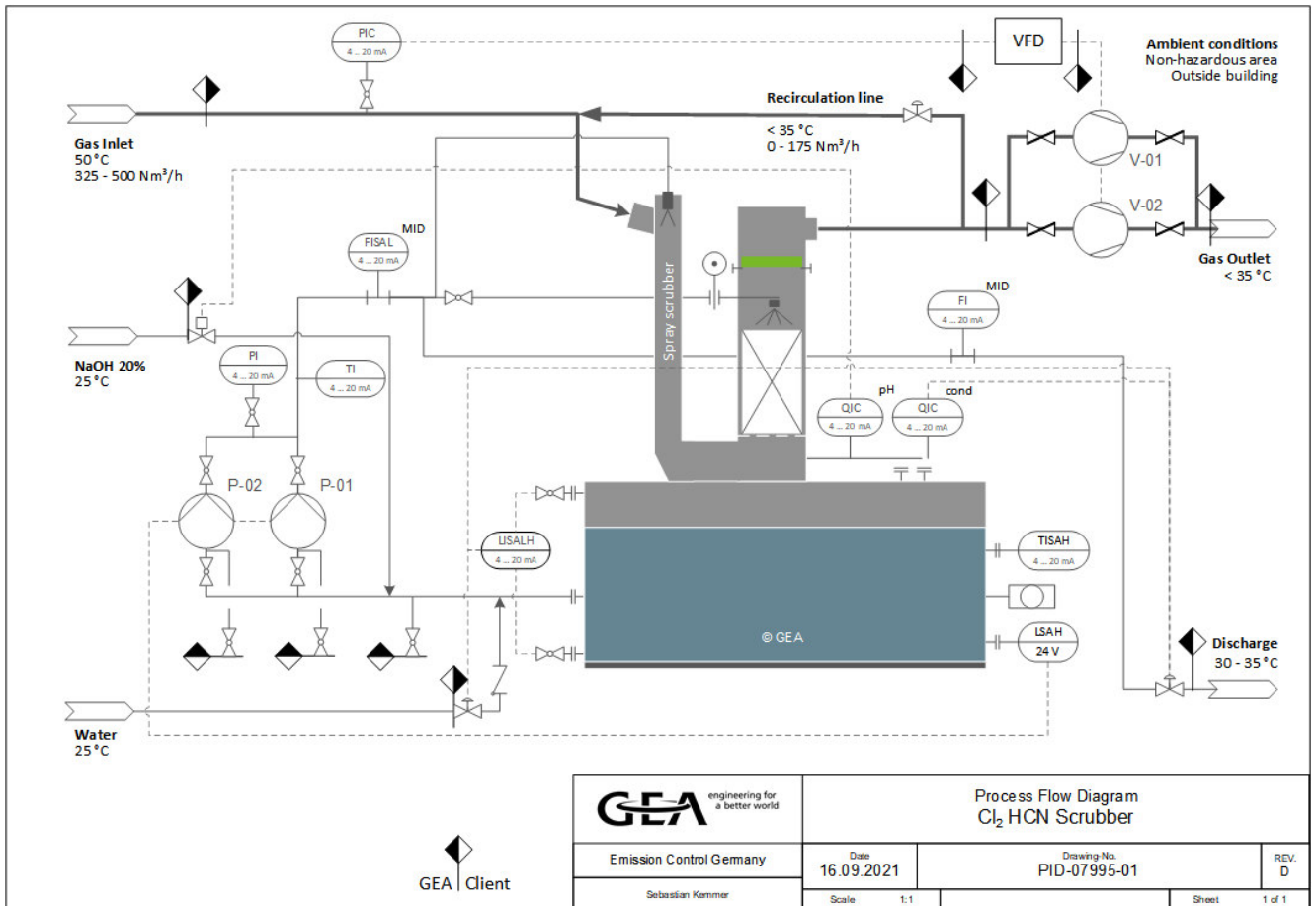
i. A. Sebastian Kemmer

Senior Project Manager

4 Technical Specification

Unless expressly stated otherwise, all technical values contained in this offer are only indicative and do not constitute a guarantee by GEA.

4.1 Process flow chart and description



Two ventilators convey the gas in accordance with the pressure in front of the gas inlet through the scrubber. The gas enters the first scrubbing stage, which is a spray scrubber. Here the main removal of the pollutants Chlorine and HCN will take place. The gas then enters a droplet separator where the fluid from the spray dryer is separated from the gas stream before it enters the counterflow column.

With the high surface area of the random packing and the evenly liquid distribution of a full cone nozzle the column sufficiently absorbs the remaining pollutants to ensure meeting the outlet concentration limits. A demister holds back any spray droplets before the gas leaves the scrubber.

To ensure a stable absorption in the spray scrubber as well as in the column a small amount of gas is recirculated. It shall ensure that the gas stream is rather stable at 500 standard m³ per hour.

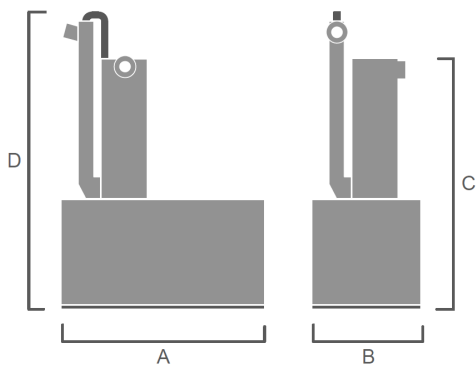
The filling level is controlled by a differential pressure monitor. It adds water to the system if required and a high level triggers the discharge to prevent overfilling. A low level switch shuts of the pumps for dry run protection.

A MID monitors the flow from the tank to the scrubber stages, sending an alarm when the flow is too low, while another MID monitors the flow of the fluid discharge.

Based on the pH measurement fresh NaOH solution is added to the system. A conductivity sensor is controlling the salt content in the scrubbing water. If the concentration is too high scrubbing liquid is being discharged.

A temperature probe monitors the temperature of the fluid in the tank, sending an alarm of the temperature exceeds the high value.

4.2 Main dimensions



A: 1.500 mm

B: 800 mm

C: 2.700 mm

D: 3.400 mm

The measures are preliminary and based on the standard of the KGW DN150 scrubber unit

Weight: approx. 800 kg incl. liquid filling

4.2.1 Example images of compact gas scrubber



Compact gas scrubber DN80
with submerged pump



Compact gas scrubber DN150 with two scrubbing
columns and heat exchanger

To reach the top if the scrubber a mobile ladder is recommended. This is for maintenance purpose only. All other parts are reachable from ground floor. We do not recommend including a ladder to the skid to avoid blocking the equipment.

4.3 Design data

Nominal inlet flow	325,6	Nm ³ /h	max. 500 Nm ³ /h
Temperature	27,4	°C	max. 36,7 °C
Pressure	atmospheric	mbar(abs)	
Composition			
Chlorine	0 ... 20	mg/Nm ³	5,4 mg/Nm ³ average
HCN	0,004	mg/Nm ³	less than allowed output
Water	2,40	Vol. %	
Inert gas	up to 97,60	Vol. %	
Nominal outlet flow			
Nominal outlet flow	330	Nm ³ /h	
Temperature	< 35	°C	
Pressure	atmospheric	mbar(abs)	
Composition			
Chlorine	< 2	mg/Nm ³	
HCN	< 1	mg/Nm ³	
Water	~ 3,5	Vol. %	
Inert gas	up to 96,50	Vol. %	
Removal efficiency			
Removal efficiency	> 90	%	
Suction pressure			
Suction pressure	max. 7	mbar	by the Ventilator
Scrubbing liquid			
Scrubbing liquid	Water + NaOH		
Quantity			
Quantity	14	m ³ /h	Circulation liquid
Temperature			
Temperature	~ 30	°C	
Consumption			
Consumption	50	g/h	NaOH 20 %
Replenishment			
Replenishment	3	kg/h	H ₂ O
Batch exchange			
Batch exchange	300	L	Water + NaOH

5 Scope of supply

5.1 Spray scrubber

Quantity	1	
Diameter	DN150	
Material	PE	Main material
	PP	Spray nozzle
	PE	Piping

5.2 Centrifugal separator and counter flow column

Quantity	1	
Diameter	DN350	
Material	PE	Main material
	PP	Random packing
	PP	Nozzle
	PP	Demister

5.3 Liquid tank

Quantity	1	
Dimensions	1100 x 800 x 840	mm x mm x mm (W x H x D)
Liquid content	400	Liter
Material	PE	Main material

5.4 Pump

Type	Centrifugal pump	
Quantity	2	In parallel
Volume flow	14	m ³ / h
Pressure head	30	mFH
Material	PP	Product side
	PP	Housing
Sealing	Magetically coupled	
Motor	5,5 kW, 400 Volt, 50 Hz, 2900 Upm, IE3 IP 65	

The scrubber, tank and pumps as well as all installed equipment are built onto a common skid frame made of galvanised steel.

5.5 Ventilator

Type	Axial ventilator	
Quantity	2	In parallel
Volume flow	150 – 550	m ³ / h
Displace pressure	700 - 300	Pa
	600 @ 325 m ³ /h	Pa
Material	PP	Product side
	PE	Housing
Sealing	Viton	
Motor	0,18 kW, 230 Volt, 50 Hz, IE3 IP 65, FC ready	

The ventilator as well as all installed equipment are built onto a common skid frame made of galvanised steel.

A sample point is provided at the outlet line of the ventilator. Flange DN25 or DN50.

5.6 Instruments

Pressure measurement

Type	Relative pressure
Quantity	2
Connection	DN25
Material	PTFE / Stainless steel
Output signal	4 ... 20 mA

Temperature measurement

Type	pt100
Quantity	1
Connection	DN25
Material	PFA / Stainless steel
Output signal	4 ... 20 mA

Level measurement

Type	Differential pressure
Quantity	1
Connection	DN25
Material	PTFE / Stainless steel
Output signal	4 ... 20 mA

pH-measurement	
Type	Electrolyte
Analyzer	External device
Quantity	1
Connection	G 1"
Range	pH 2 ... 14
Output signal	4 ... 20 mA
Level switch (dry run protection)	
Type	Vibronic
Quantity	1
Connection	DN25
Material	PTFE / Stainless steel
Output signal	Switch signal
Flow measurement	
Type	MID
Quantity	2
Connection	DN80 / DN25
Material	PTFE / Stainless steel
Output signal	4 ... 20 mA
Conductivity measurement	
Type	Capacitive
Analyzer	External device
Quantity	1
Connection	G 1 1/2"
Output signal	4 ... 20 mA

24 V DC for instrumentation is considered.

5.7 Valves

Manual valves

Quantity	8	1	5
Connection	DN25	DN100	DN150
Material	PP	PP	PP

Manual valves

Quantity	2	2
Connection	DN65	DN80
Material	PP	PP

Non return valve

Quantity	1
Connection	DN25
Material	PP*

Automatic valves with pneumatic actuator position control and limit switch

Quantity	2	1
Connection	DN25	DN25
Material	PFA	Stainless steel*

24 V DC for pneumatic actuator are considered.

* for fresh water supply

6 Remark on System Execution

Structural and connection dimensions according to chapter 4.2 Main dimensions.

The systems are designed for outdoor installation in a none ATEX area.

Connection flanges designed according to DIN 1092-1, PN 10.

Strength design of the vessels according to DVS guidelines [*German Welding Association*]

Design pressure: +20 / -20 mbar

Design temperature: +50°C

Strength design of the vessels is performed in accordance with the rules of engineering. As the above vessels do not constitute pressure vessels within the terms of the Accident Prevention Regulations, they do not require acceptance by TÜV or self-monitoring, which are consequently not scheduled.

Our scope of supply does not include assembly and commissioning of the system, supply and discharge lines, possible regulation systems, etc., i.e. any work and supplies going beyond the scope of our quotation are not included in our scope of supply.

Screws used for flanged joints and all external screws are made of steel/galvanized.

If the order is placed, the system will be completely pre-assembled in our manufacturing plant. It will then have to be partially disassembled for shipping purposes, i.e. pipes, vessels and pump will be delivered as individual parts which have to be assembled by the customer.

Re-assembly will be carried out by the customer according to our assembly drawing.

If the customer requests assembly supervision and commissioning by our personnel, the corresponding costs will be charged as incurred according to the cost rates applicable at the time of execution.

6.1.1 Site conditions

- Altitude: close to sea level ~0 m
- Average temperature: 13.1°C
- Maximum absolute temperature: 40°C
- Minimum absolute temperature: - 15°C
- Relative average moisture: 84 %
- Pluviometry: 775 mm/year
- Prevailing winds: North/Northeast
- Average wind speed: 3m/s
- Seismicity: Classified zone 4

Please consider a winterization for the unit. At temperatures below 0 °C plastic material may brittle. We recommend an insulation and trace heating for at least the tank and pump lines to protect them from freezing during downtime in winter.

7 Documentation

Documentation is provided in English language and is prepared electronically and provided as a download.

The operation manual is provided in the local language (Italian).

Documents are prepared using the Portable Document Format (PDF) and correspond to the GEA Wiegand standard. Drawings can be provided as AutoCAD files, if so agreed.

In order to be able to observe the scheduled deadlines, we will submit various drawings and information to you in the course of project progress. These have to be returned to us within 5 days following receipt, marked with either your approval or comment. If the customer does not observe this deadline, the drawing is automatically deemed as approved.

The following documents are included in the quotation:

Installation drawings

Illustration of the installation of all vessels, process equipment and support structures. The illustration includes a top view and typical sectional views which are mostly drawn true to scale.

Process and instrumentation diagram (P&ID)

Schematic representation of a process or a process system and the corresponding functions based on graphic symbols interconnected by lines. The graphic symbols represent process equipment and the lines represent the flow and the functions.

Operation manual according to GEA standard

Technical documentation containing information on system operation and maintenance, covering normal operation, start-up, stop/shutdown and possible emergency conditions.

Test certificates according to DIN 10204 for synthetic materials and parts not in contact with the product

Documents confirming compliance of the material with the corresponding order (2.1) including the results of non-specific tests (2.2) carried out by the manufacturer.

Test certificates for metal parts and all parts in contact with the product according to DIN 10204

Confirmation of compliance with the order including the results of specific tests (3.1) carried out by the manufacturer's acceptance test inspector who is independent of the manufacturing department.

Test reports and acceptance certificate

Report on the mechanical acceptance test of vessels and process equipment according to the GEA Wiegand standard.

Declarations of conformity, calibration provisions and certificates

Documents of the process and instrumentation equipment issued by the respective manufacturer.

Assembly instructions (included in the operation manual)

A short survey of all steps to be followed during the assembly process, including remarks on specific components, according to the GEA Wiegand standard.

Maintenance plan (included in the operation manual)

A table overview of all components requiring regular maintenance, according to the GEA Wiegand standard.

Operation manual according to the Machinery Directive 2006/42/EC according to GEA standard

Technical documentation containing information on system (machine) operation and maintenance, covering all information required by the Machinery Directive.

EU Declaration of Conformity according to the Machinery Directive 2006/42/EC

Declaration of conformity of the system (machine) to the Machinery Directive 2006/42/EC and any possible further directives.

7.1.1 Further documents

The documents and actions as follow are part of the scope of supply:

- Logic control narrative and safety interlocks
- HazOp participation (online)
- CE certification of sub-supplied electrical or machinery items

8 Exclusions of Delivery

- Building, steelwork, foundation and all work related thereto
- Support structures, platforms, ladders, railing, etc. for installing and accessing the equipment
- Gas-side connection and/or supply lines
- Liquid-side supply lines (only the liquid-side circulation line from the storage tank to the column is included in the contractor's scope of supply)
- Insulation against cold / protective heating / protective insulation or protection against accidental contact
- PLC, control system and connection to the process control system (neither hardware nor software)
- Foundation fastenings
- Water / waste-water treatment
- Dosing station for biocide dosing according to the 42nd Federal Emission Control Regulation, if required
- Electric wiring, lightning protection and grounding system
- Motor control, motor contactors and VFD
- Lighting and signage
- Supports for incoming linesp
- Assembly / commissioning
- FAT, SAT support and documents
- Meeting and travel expenses will be charged separately.
- All work, services, supplies not listed in the scope of quotation

The following documents are excluded from the scope of supply:

- Documents according to the Pressure Equipment Directive
- Workshop drawings and detailed drawings

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

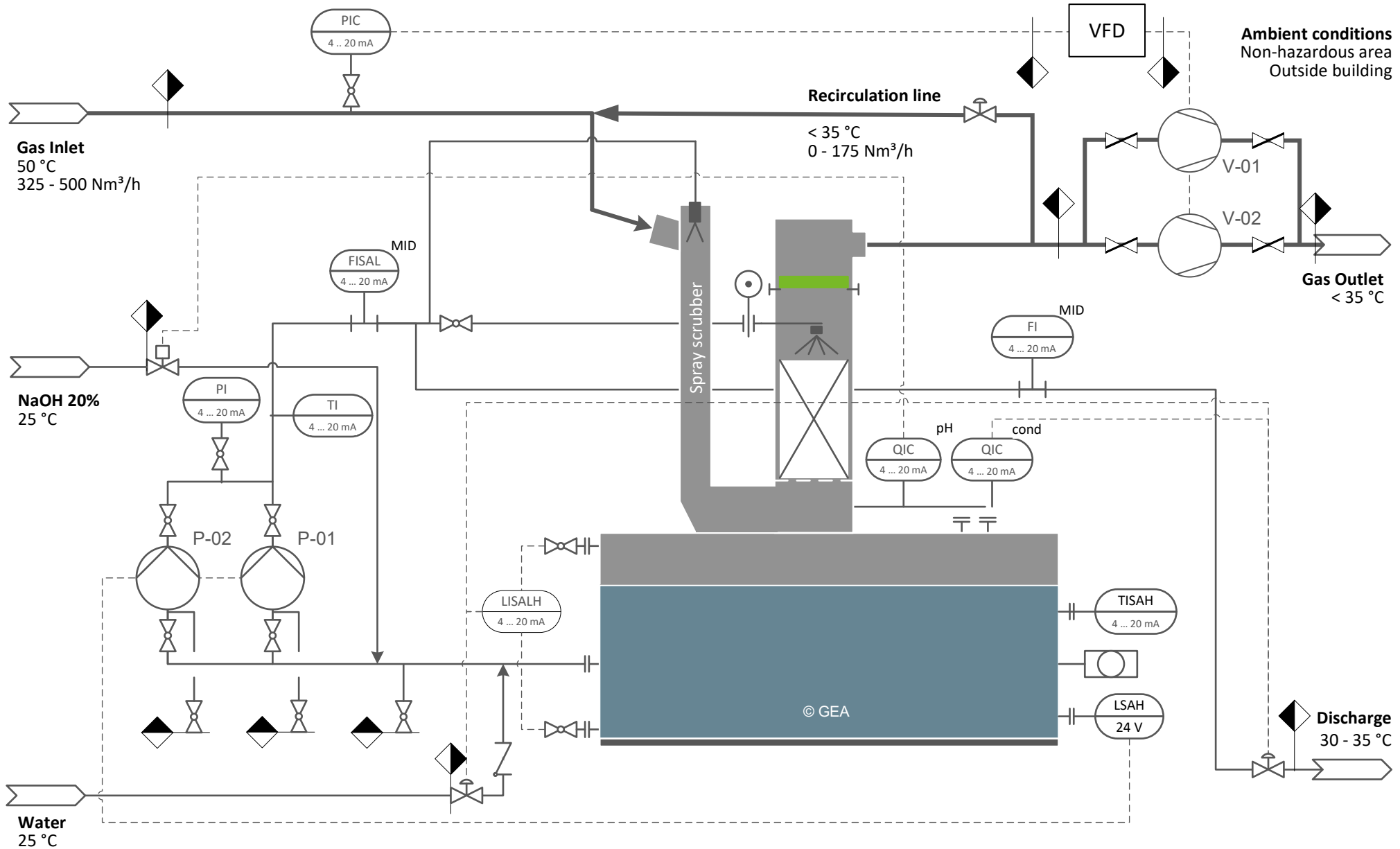
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ALLEGATO 2 – PID DEL SISTEMA DI ABBATTIMENTO SCRUBBER



 engineering for a better world	Process Flow Diagram		REV. D
	Cl₂ HCN Scrubber		
Emission Control Germany	Date 16.09.2021	Drawing-No. PID-07995-01	
Sebastian Kemmer	Scale 1:1	Sheet 1 of 1	

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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**ALLEGATO 3 – ORDINE CONTRATTUALE DEL SISTEMA DI ABBATTIMENTO
SCRUBBER**

**Ordine d'acquisto 3100001891**
(da riportare su ogni documento ed in particolare sulle fatture)

CONSEGNA Indirizzo di consegna ALTUGLAS SRL Socio Unico Stabilimento di PORTO MARGHERA Via della Chimica 5 I-30175 PORTO MARGHERA (VENEZIA) VE Tel Fax Data di consegna vedere le posizione Termini di consegna DAP Porto Marghera Venezia Italy	FORNITORE GEA WIEGAND GMBH AM HARDTWALD 1 D-76275 ETTLINGEN GERMANY Vs contatto Vs tel Vs fax Vs codice 300947
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INFORMAZIONI GENERALI N. ord. acq./data 04.11.2021 Ns contatto F. MAINARDI Ns Tel +39(0)4.12.58.69.44 Ns fax +39(0)4.12.58.69.72 Ns Email fmainardi@trinseo.com Organizzazione acquisti	INFORMAZIONI PER FATTURAZIONE Indirizzo ALTUGLAS SRL Contabilità Fornitori via Pregnana 63 20017 RHO (Milano) ITALIA Tel +33(0)4.26.55.34.78 Fax Monday - Friday (2pm-4pm) Email invoices.altuglas-it@arkema.com 1 pdf file per invoice and its appendices reminder.altuglas-it@arkema.com Società ALTUGLAS SRL SOCIO UNICO Termini pagamento pagabile entro 30 gg dalla data fattura
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LE CONDIZIONI DI FORNITURA DEL PRESENTE ORDINE D'ACQUISTO SONO REGOLATE, A SECONDA DELL'OGGETTO DELLA FORNITURA, DALLE "CONDIZIONI GENERALI DI ACQUISTO" DI ALTUGLAS - O DALLE "CONDIZIONI GENERALI DI FORNITURA DI SERVIZI, OPERE E BENI CON INSTALLAZIONE" DI ALTUGLAS, IN ALLEGATO/GIÀ IN VOSTRO POSSESSO.

IL PRESENTE ORDINE D'ACQUISTO SARA' RITENUTO VALIDO ED ESECUTIVO ALLA RESTITUZIONE, DA PARTE VOSTRA, DI UNA COPIA DELLO STESSO DEBITAMENTE TIMBRATA E SOTTOSCRITTA IN OGNI SUA PARTE, IN SEGNO DI ESPLICITA ACCETTAZIONE.

VI INFORMIAMO CHE ALTUGLAS HA ADOTTATO, AI SENSI DELL'ART. 6, COMMA 3, DEL DECRETO LEGISLATIVO 8 GIUGNO 2001, N.231.

Valore totale netto : 136.008,70 EUR
--

AUTORIZZATO DA	ACCETTAZIONE DELL ORDINE	
Adina OBREJA	Ragione sociale del Fornitore	Nome, Titolo e Firma del rappresentante autorizzato
Data 16.11.2021		Data

Altuglas S.r.l., a company duly organized and existing under the laws of Italy, having its registered office at 63, via Pregnana, 20017 Rho, Italy, and registered with the Chamber of commerce of Milan (REA) under number 11416750963

**Ordine d'acquisto 3100001891**
*(da riportare su ogni documento ed in particolare sulle fatture)***Fatturazione elettronica:**

Informiamo che siamo regolarmente registrati al sito dell'Agenzia delle Entrate, al quale abbiamo fornito le indicazioni necessarie per il recapito delle fatture.

Il codice univoco di fatturazione elettronica non attivato, inserire 7 volte 0 e la pec altuglas.srl@legalmail.it l'indirizzo per le fatture di cortesia sia: invoices.altuglas-it@arkema.com

The reference to offer no. SW-63-21-07995 CI2 / HCN Scrubber Rev F dated 28.10.2021 is for the sole purpose of illustrating technical specifications and costs, this order takes precedence over any other document from the supplier, including any order confirmations and general conditions.

Pos	Riga/Descrizione	Quantità	Prezzo unitario	Valore in EUR
1	Anticipo ordine per scrubber package Data di 15.11.2021 consegna: 10 35% ANTICIPO ALL'ORDINE	1,00 UR	47.600,00 EUR / 1 UR	47.600,00
			1 UR 47.600,00 EUR/ 1 UR	47.600,00
2	Consegna scrubber package Data di 25.03.2022 consegna: 10 55% ordine alla consegna skeed	1,00 UR	88.408,70 EUR / 1 UR	88.408,70
			1 UR 72.100,00 EUR/ 1 UR	72.100,00
20	Assistenza installazione 1 persona 2 gg	0,001 UR	3.900,00 EUR/ 1 UR	3,90
30	Assistenza avviamento 1 persona 2 gg	0,001 UR	4.800,00 EUR/ 1 UR	4,80
40	DAP shipment a Poro Marghera	1 UR	2.700,00 EUR/ 1 UR	2.700,00
50	10% Consegna doc. e certificazioni	1 UR	13.600,00 EUR/ 1 UR	13.600,00
			Valore totale netto escl IVA (EUR):	136.008,70

Terms of payment

Terms of Payment

35 % upon receipt of order, issuance of order confirmation

55 % upon DAP delivery or FAT in case of FCA delivery

10 % after submission of final documentation

Down payment is due within 30 days, all other payments are due 60 days after the corresponding request for payment.



TRINSEO

ALTUGLAS SRL SOCIO UNICO

Ordine d'acquisto 3100001891
(da riportare su ogni documento ed in particolare sulle fatture)

All prices are net prices.

Delivery

The equipment will be ready for shipment on 25 March 2022, final arrival date of 31 March 2022.

Purchasing Gen. conditions

PRICES

Fixed and invariable prices.

CREDIT

The credit deriving from the present order is not assignable to third parties (art. 1260 civil code, 2nd paragraph).

SHIPMENT AND DELIVERY

The goods must be received at the factory between 8 a.m. and 12 noon and 1 p.m. and 4 p.m. from Monday to Friday, excluding holidays.

N.B. Please remember to send the name and vehicle registration number of the forwarder at least 1 day in advance to fmainardi@trinseo.com and sscroccaro@trinseo.com to facilitate access to the site.

Warranty Period

The warranty period is 18 months from the date of commissioning, however no longer than 24 months from delivery or notice of readiness for shipment.

Material Price Adjustment

Seller reserves the right to adjust the Contract Price for any escalation in the cost of materials (including without limitation the cost of stainless steel, nickel and other metals) that occurs in the time period from the date of Seller's quotation plus 100 days and up to and including the date Seller (or any affiliate of Seller) orders materials for the manufacture or assembly of Seller's supply ("Contract Price Adjustment"). Any Contract Price Adjustment shall be based solely on the escalation (if any) of Seller's direct costs.

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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ALLEGATO 4 – TERMINI GENERALI DI VENDITA DEL SISTEMA DI ABBATTIMENTO SCRUBBER

GENERAL TERMS OF PURCHASE

Introduction

These General Terms of Purchase (hereinafter GTP) shall regulate all purchase orders (hereinafter Order) issued by Altuglas Srl (hereinafter Purchaser) to any supplier (hereinafter Supplier) for the supply of products and/or materials (hereinafter Supplies) and shall regulate all relations deriving therefrom.

The GTP shall bind the parties within the boundaries of their enforceability to the subject matter of the Supply and the specific type of offered Product and/or Material.

The Purchaser's Orders shall thus be governed by these GTP, without prejudice to the express provisions in special conditions stated in the Order that shall prevail in the event of conflict with these GTP.

Any derogation from, amendment or addition hereto shall be valid only if expressly accepted in writing by the Purchaser.

Art. 1 – Definitions

GTP: shall mean these terms which shall always be an integral part of the Order;

Technical-Operative Documents: shall mean all the documents aimed at defining the technical and operative features of the Supply including but not limited to drawings, specifications, manuals, technical specifications, agreements on quality, safety, occupational health and the protection of the environment which shall be an integral part of the Order;

Order: shall define obligations and rights between the Purchaser and the Supplier for the supply of Products and/or Materials and is formed by the special conditions, the Technical-Operational Documents and these GTP;

Order Change: shall mean a written addition to the order, issued by the Purchaser, accepted by the Supplier with the same procedure as the Order, for introducing additions, reductions and changes to the contents of the Order;

Purchaser: shall mean each of the operative units of Altuglas S.r.l. that issues the Order to the Supplier for the Supply of the Products and Materials described below;

Supplier: shall mean the company that receives the Order from the Purchaser for the supply of Products and Materials described in the Order;

Supply: Products (raw materials, packaging, semi-finished products and finished products) and/or Materials (materials in general and components) requested from the Supplier and forming the subject matter of the Order.

Art. 2 – Acceptance of the order and of the general terms of purchase

Supplier's acceptance of the Order and of the GTP, which are an integral part thereof, shall be received by the Purchaser in the 10 (ten) business days following the date of receipt of the Order, by returning the specific copy duly stamped and signed.

Elapsed such term, the Purchaser shall have the faculty to cancel the Order at any time or to consider the Order as accepted.

Acceptance of the Order shall imply the Supplier's absolute waiver of its conditions of sale, even if these are attached to its offer or Order's acceptance.

The Supplier and the Purchaser agree on the opportunity to issue the Order and its acceptance even only electronically, by e-mail or other shared system (e.g. management software and/or on-line platforms), being understood that in such cases the Order and its acceptance are deemed as issued in writing,.

It is understood that, in case the Supplier does not return a signed hardcopy of the GTP within 10 days of the electronic Order, the Purchaser shall have the faculty to cancel the Order at any time or to consider it accepted.

Art. 3 – Amendments to the supply and order changes

During the performance of the Supply, the Purchaser shall be entitled to change quality, quantity, features and/or form of the Supply through an Order Change.

The Supplier shall timely provide for such changes. The Supplier shall, in any case, inform the Purchaser within 7 days of receipt of the Order Change of any effect and/or consequence which could be caused and affect the Supply because of such changes.

If such changes affect times and costs, the Parties shall be entitled to agree on an additional consideration and/or an extension to the delivery terms.

If the Supplier fails to inform the Purchaser of any possible effects and/or consequences caused by the Order Change, the Supply's delivery/performance terms shall be the ones agreed on in the initial Order.

Art. 4 – Skills and obligations of the supplier

The Supplier represents and warrants that it has (i) the means, resources and technical skills to ensure the best available quality of the Supply, (ii) the financial capacity and the human resources required to deliver the Supply with no risks of interruptions or delays and (iii) all necessary licenses, authorizations, rights and approvals, if any, to deliver the Supply.

ALTUGLAS S.r.l.

Via Pregnana, 63 - 20017 Rho MI

Tel. +39 02 935131 - fax + 39 02 93513999

Sede Legale: Via Pregnana, 63 - 20017 Rho MI Italia Capitale Sociale Euro 10.000.000,00 i.v.

C.F. e P. IVA e N. iscrizione Registro delle Imprese MI - MB - LO - 11416750963 REA MI - 2600816



The Supplier represents and warrants that it will provide the Supply and in accordance with the terms of the Order that it accepted, including but not limited to, the conditions and the specifications of the Order, and that it shall, specifically, comply with the quantity and quality of the Products and/or Materials and with the delivery terms/dates stated in the Order.

The Supplier shall provide the Purchaser, upon the Purchaser's express request, (i) all information necessary to the Purchaser to identify the origin, manufacturing date and place of the Supply and/or of the elements forming the Supply, (ii) reports of any completed quality control, and (iii) all relevant information, serial numbers or batch numbers.

Art. 5. – Performance

The Supplier warrants that the Supply meet all quality requirements specified in the Order or otherwise notified to the Supplier by the Purchaser.

The Supplier represents and warrants that the Supply shall be consistent with all the specifications indicated in a given Order or howsoever notified to the Supplier by the Purchaser and with all regulations and/or law provisions applicable to the Products and/or the Materials object of the Supply, that it shall be free from material and processing defects and that it may be used in standard conditions of use.

If the Supply is not consistent with the specifications of a given Order, or if it is howsoever defective, the Purchaser shall be entitled to reject acceptance of the Supply at issue or accept it conditionally or with a price reduction determined by the Purchaser.

If the Purchaser rejects the defective or inconsistent Supply, the Supplier shall, at the Purchaser's discretion, supply again, or repair or replace the Supply at issue as soon as possible with no add prejudice to any additional rights and remedies.

Art. 6 – Delivery terms

The Supplier shall deliver the Supply at the agreed operating units of the Purchaser within the dates and the terms set in each Order or otherwise agreed on in writing by the Purchaser, which shall be binding for the Supplier, even if the latter fails to expressly accept them.

The Supplier shall timely inform the Purchaser of any event capable of negatively affecting the Supply's delivery dates and terms.

The Supplier shall bear all the risks and costs of delivery, it being understood that – without prejudice to any different condition agreed on in writing by the Purchaser – the Purchaser shall accept no tolerance on the quantity of the ordered Supply.

Title to the Supply shall pass to the Purchaser upon delivery of the Supply by the Supplier.

Advance deliveries shall not be admitted unless authorized in writing, the same shall apply to partial deliveries, unless agreed on in writing.

Art. 7 – Penalties for late deliveries

In the event of failure to comply with the established delivery terms of the Supply or a part thereof, whichever the cause – with the sole proven exception of force majeure which the Supplier shall in any event notify in writing – the Purchaser shall have the faculty to charge the Supplier, without prejudice to any termination and compensation rights for any further damage incurred, a penalty of 0,5 % of the value of the purchase Order per each week of delay up to a cap not exceeding 5% (five percent).

In any event, if delays exceed 30 (thirty) days, the Purchaser shall be entitled to terminate the Order, fully or in part, by simple written notice under article 1456 of the Italian Civil Code, without prejudice to compensation for any damage incurred.

In this case, nothing shall be due to the Supplier, except for the payment of the Supply that the Purchaser accepted and withheld or used.

The Purchaser shall be entitled to offset any amount payable for any reason to the Supplier including for supplies other than the ones covered by the Order against amounts accrued as penalties in performing the Order.

Art. 8 – Liability

The Supplier shall indemnify and hold the Purchaser harmless against any claim or legal action of any third party during or further to a supply/performance of an Order based on infringement of rights (including intellectual property rights) in connection with any action, omission, noncompliance, negligence, default or error ascribable to the Supplier, its staff, its subcontractors or the staff of subcontractors in the performance of an Order.

The Supplier shall in any event fully indemnify the Purchaser against any cost, disbursement, loss or damage, including interest, penalties, fees and other professional expenses which the Purchaser was ordered to pay or incurred as a result of or in connection with any action, omission, noncompliance, negligence, default or error of the Supplier, its staff, its subcontractors or the staff of subcontractors in the performance of an Order.

Art. 9 – Warranty on compliance of “reach regulations” – regulations no. 1907/2006/ec

The Supplier of chemical substances and/or chemical elements and components represents and warrants to operate in compliance with “Reach Regulations” on registration, evaluation, authorization and restrictions of said chemical substances and

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elements (Regulations n. 1907/2006/EC), considered individually, including polymers and monomers, and as part of mixtures or used as intermediaries, as well as products or materials supplied to the Purchaser, whether produced inside the European Union or imported.

The Supplier represents and warrants: (i) that it complied and complies with all obligations imposed on it by "Reach Regulations", (ii) that all the information disclosed to the Purchaser in connection with "Reach Regulations" compliance is true and accurate, and that the Purchaser may therefore unrestrictedly use directly and/or sell to third parties the substances, chemical, products or materials supplied by the Supplier because these comply with the "Reach Regulations", (iii) that it shall indemnify and hold the Purchaser harmless against any and all liabilities and losses incurred as a result of noncompliance, if any, of the substances, chemical products or materials with "Reach Regulations".

The Supplier shall provide both the safety data sheet for all substances and/or chemicals and components and the relevant timely revision in the event of changes or if this was required by the law.

Art. 10 – Force majeure

Neither party shall be regarded as in default or liable to the other for non-performance or late performance of any of its contractual obligations when such non-performance or late performance may be traced back to an event that may be qualified as force majeure pursuant to article 1218 of the Italian Civil Code.

In such event, the time limit for performance shall be extended by a reasonable period that takes into account the effects of the cause of non-performance or late performance or the Order may be terminated if such cause lasts for a period exceeding 60 days.

It is nonetheless agreed that the party in default shall (i) inform the other in writing without delay of the occurrence of such event and of the manner in which such event prevents from the performance of its obligations, and (ii) adopt a reasonable business conduct to resume performance as soon as reasonably possible.

Art. 11 – Deliveries and packaging

Deliveries of materials shall be accompanied by mandatory shipping documents, in two copies, which shall indicate the following information: date, Purchase Order number and date, material code, product description, quantity, gross and net weight of each package, shipping method.

In the event of partial delivery, the documents shall indicate if it is the final or intermediate delivery, in the event of replacement of scraps or returns because of excess materials received from the Supplier to be processed and similar, such circumstances shall be mentioned with the details of the original document of the Purchaser.

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The Supplier shall label and package the supply appropriately according to the purchase Order or, in the absence of indications, according to the best practices generally applied in trade, and it will retain liability for any damages to the supply resulting from inappropriate packaging.

Art. 12 – Inspection of Supplies

Acceptance of the Supply is conditional on determining its consistency with quantity and quality conditions in the purchase Order.

Upon delivery of the goods, the Purchaser shall make the necessary checks on quantity, quality and documents, which shall not affect in any event the enforceability of the warranty pursuant to following article 13.

If the supply fails to meet contract terms and conditions, it may be rejected and made available to the Supplier for possible replacement, the costs of which shall be borne by the latter, with a different Supply that is consistent with Order requirements, without prejudice to the Purchaser's rights to termination and to compensation for any damages.

Art. 13 – Warranty

Pursuant to the representations in article 5 above, the Supplier hereby warrants that the Supply shall be consistent with the contents of the Order, fit for the specific requested use, and free from defects and faults.

Unless differently indicated in the Order, this warranty shall be effective for two years after the Supply delivery date.

If, during this warranty period, defects and/or faults are detected, the Supplier shall, within 10 (ten) days of the notice, repair or replace the Supply.

Elapsed this term, the Purchaser shall be entitled to take measures directly or through third parties, charging any costs for such action to the Supplier.

The same warranty term and the conditions of the original supply shall apply to repaired goods or goods delivered as replacements.

Art. 14 – Confidentiality obligation

The Supplier shall keep confidential any and all information of the Purchaser (regardless of how it is saved, filed or disclosed) especially financial, technical and/or commercial information concerning, among other things, the Purchaser, its operations and the subject matter of an Order.

The Supplier shall not use such confidential information for purposes other than complying with the obligations in a given Order.



The Supplier may disclose such confidential information to its employees, executives, authorized subcontractors only to the extent that this is necessary to perform the Order and it shall make its employees, executives or authorized subcontractors to which such information is disclosed undertake confidentiality obligations and restrictions at least as strict as the ones herein, and use such confidential information only to comply with their obligations under a given Order.

Confidential information does not include information that, based on what is proven by the Supplier in written documents, at the time of its disclosure: (i) was already in the public domain or was obtained lawfully from other sources that did not undertake confidentiality obligations with the Purchaser, or (ii) were already lawfully in the hands of the Supplier.

Without prejudice to any different order of the judicial or regulatory authorities, the Supplier shall not make any public disclosure of confidential information without the prior written approval of the Purchaser.

The provisions in this article 14 shall survive for 5 years after the performance of an Order.

The Supplier shall not disclose technical and/or commercial information and/or data on the Order to any third parties before, during and after performance of the Supply.

Art. 15 – Intellectual and industrial property rights

All materials, equipment, tools, drawings, specifications and data supplied to the Supplier by the Purchaser (collectively “Preexisting Material”) and all rights including intellectual property rights on Preexisting Material shall remain exclusive property of the Purchaser and shall be returned upon the Purchaser’s request or upon completion of the performance of a given Order. Unless it receives prior written approval of the Purchaser, the Supplier undertakes not to use the Purchaser’s confidential information, the name, logo or trademark of the Purchaser or of the Trinseo Group as business reference and in any publication.



In this article, intellectual property rights shall mean patents, rights on inventions, utility models, copyright, trademarks, trade names, company names and domain names, design rights, software rights, database rights, topography rights, rights on confidential information (including know-how and industrial secrets) and any other intellectual property right, whether or not registered, including all applications relating to such rights, renewals or extensions and all rights or similar or equivalent forms of protection the world over.

In the event of termination of an Order, regardless of the reason for such termination, the Supplier shall deliver to the Purchaser within ten (10) calendar days from the termination of the Order, all elements and documents produced in connection with such Order and the Purchaser shall not have to make such express request.

All Purchaser's Technical-Operative Documents that will be made available shall remain property of the latter and shall be used solely to perform the Order. The Supplier shall be responsible for their diligent filing and, if delivered as hardcopy, shall return them in good conditions at the end of the Supply.

Art. 16 – Technical documents

According to the modalities (number of copies and language) and terms indicated in the Order, the Supplier shall supply all technical documents and certificates related to the Supply. Lacking such documentation, the Purchaser shall have the right to suspend payments.

If changes or additions are necessary, the Supplier shall send the new technical documents without delay, amended based on the Purchaser's request.

Art. 17 – Accident prevention

The Supply covered by the Order needs to be guaranteed in compliance with applicable accident prevention regulations.

Art. 18 – Inspections and checks at the Supplier's premises

The Purchaser shall have the right, subject to three days' notice, to send inspectors or inspection bodies to the Supplier's plant to check, at any time in standard working hours, manufacturing operations, the quality of materials used and the proper performance of all the obligations undertaken by the Supplier in the Order, in compliance with all applicable safety and confidentiality regulations. Such inspections and checks shall not release the Supplier from its obligations in contract, in particular those concerning the Supply warranties.

Art. 19 – Prices

Prices indicated in the Order do not include VAT and any and all charges necessary to obtain the Supply.

The Supplier shall not charge the Purchaser a price higher than the one indicated in the Orders, unless previously authorized in writing by the Purchaser.

In the absence of express clauses in the Order, prices shall be regarded as non-revisable, fixed prices.

Invoices issued by the Supplier shall always be made out in the name of the Purchaser and sent to the address stated in the Order.

Invoices issued by the Supplier shall be settled provided that the Supply was delivered to the Purchaser and that the latter ascertained its consistency with the Order.



If the Purchaser disputes, even partially, the Supply covered by an invoice, the obligation to settle the invoice shall be suspended and, consequently, no interest or penalty shall be applied.

The Purchaser shall send a report in which it specifies its claim by and no later than **the disputed invoice's payment date**.

The Supplier shall therefore raise a new invoice for the undisputed Supply and cancel the disputed one.

Art. 20 – Invoices

Invoices shall be issued under applicable legislation and on the terms indicated in the Order.

Art. 21 – No assignment of the Order – Data's variation

The Supplier shall not assign, not even partially and/or after the assignment or the lease of the business which the Order is connected to, the Order to third parties without the prior written authorization of the Purchaser.

Also in case of assignment authorized by the Purchaser, the Supplier shall be jointly and severally liable with the assignee also after the assignment of the Order for the part already performed and for the debts accrued before the assignment itself.

During the Order's performance, the Supplier shall inform the Purchaser of any possible variation of its company and identifying data (i.e. business name, fiscal code, VAT number, legal office, ownership), as well as of its bank data supplied on occasion of suppliers' verification or even afterwards (bank domiciliation, IBAN code, beneficiary), being necessary to comply with the verifications and/or suppliers' data variation procedures and with the other procedures of the Trinseo Group (already existent during the verification phase or new) according to what will be from time to time indicated by the Purchaser also on the basis of the typology of the variation communicated by the Supplier.

Till the successful completion of the mentioned procedures, the performance of the Supply and/or the relevant payments may be suspended by the Purchaser.

Art. 22 – No assignment of credits

Under article 1260 para. 2 of the Italian Civil Code, the Supplier's credits generated by performance of the Order shall not be assigned to third parties without the prior written consent of the Purchaser.

Art. 23 – Withdrawal

The Purchaser shall be entitled to withdraw from the Order fully or in part at any time, including after performance of the Order has begun, by return receipt letter or

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PEC, sent to the Supplier with no less than 20 (twenty) days' notice as to the scheduled delivery date.

In such event the Purchaser shall pay the Supplier, as consideration for the Supply delivered up to the date of withdrawal, an amount equal to the value, at contract prices, of properly completed performance.

Art. 24 – Express termination clause

In the event of breach or non-compliance by the Supplier of one or more of the following GTP clauses, the Purchaser shall be entitled to terminate the Order pursuant to article 1256 of the Italian Civil Code, by return receipt letter/PEC sent to the Supplier, without prejudice to the Purchaser's right to compensation for any possible damages suffered: Article 2, para. 3 (waiver to sale conditions); Article 4, para. 1 (skills) and last para. (documentation and information); Article 5, last para. (solutions to non-compliances); Article 6, para. 1 (delivery terms); Article 8 (liabilities); Article 9 (REACH regulation); Article 11 (deliveries and packaging); Article 16 (technical documents); Article 21 (no assignment); Article 25 (Compliance with laws and Trinseo Group's Supplier Code of Conduct).

Art. 25 – Compliance with laws and Trinseo Group's Supplier Code of Conduct

Supplier's performance under the Order shall be in compliance with all applicable legislation and statutory requirements, implied terms, good industry practice, standards, regulations and codes of practice, relating to the Supply and their sale and supply or otherwise.

Supplier shall conform with any and all related policies as well as any of Trinseo Group's related policies including Trinseo's Supplier Code of Conduct and supporting Anti-bribery and Anti-corruption Policies (all as published on TRINSEO's website: www.trinseo.com), in each case as Trinseo Group may update them from time to time (Relevant Policies). Alternatively, Supplier may conform to its own Code of Conduct if it includes similar principles.

Art. 26 – Patented production supplies

The Supplier warrants that the Supply is not produced by infringing patents or licenses as it warrants its lawful use and trade, in Italy and abroad.

The Supplier shall indemnify and hold the Purchaser harmless from any and all third party claims, legal actions or compensation claims and for the breach of industrial property rights in using and trading the foregoing.

Art. 27 – Governing Law

The Order shall be governed by and construed, in all respects, in accordance with the laws of Italy.



Art. 28 – Competent Jurisdiction

The Court of Milan shall have exclusive jurisdiction on any dispute arising from and/or in connection with the Supply.

Art. 29 – Processing of personal information – Privacy

The Supplier and the Purchaser mutually warrant to comply with applicable legislation on the processing of personal data, as governed by the Italian Privacy Code (Legislative Decree No. 196/2003) and the GDPR regulation (EU Regulation No. 679/2016). Any personal data submitted shall be processed for Supply purposes only.

*** **

Place and Date: Ettlingen/Milano 15.11.2021

Supplier

 i.V. 

Purchaser



Pursuant to articles 1341 and 1342 of the Italian Civil Code, the Supplier expressly approve and accept the following GTP provisions: Introduction (effectiveness of GTP); art. 2, para. 2 (order acceptance), para. 3 (waiver of conditions of sale) and para. 4 (effectiveness); art. 3, para. 1 (order changes); art. 8 (liability and indemnification); art. 9, para. 2 (REACH regulation); art. 12 (Inspections of Supplies); art. 13 (warranty); art. 19 (prices and payment); art. 21 (no assignment of the Order – data's variation); art. 22 (no credits assignment); art. 23 (withdrawal); art. 26 (Patented production supplies); art. 28 (competent jurisdiction).

Place and Date: Ettlingen/Milano 15.11.2021

Supplier

 i.V. 

Amendment to: GENERAL TERMS OF PURCHASE – TRINSEO

In deviation from standard clauses of GTP the following wording shall apply:

Art. 5 – Performance

The Supplier warrants that the Supply meet all quality requirements specified in the Order or otherwise notified in writing to the Supply by the Purchaser according to Art. 3.

The Supplier represents and warrants that the Supply shall be consistent with all the specifications indicated in a given Order or otherwise notified in writing to the Supplier by the Purchaser and with all regulations and/or law provisions applicable to the Products and/or Materials object of the Supply, that it shall be free from material and processing defects and that it may be used in standard conditions of use.

If the Supply is not consistent with the specifications of a given Order, or if it is howsoever defective, the Purchaser shall be entitled to reject acceptance of the Supply at issue or accept it conditionally or with a price reduction determined by the Purchaser.

If the Purchaser rejects the defective or inconsistent Supply, the Supplier shall, at the Purchaser's discretion, supply again, or repair or replace the Supply at issue as soon as possible with no add prejudice to any additional rights and remedies, however only after having granted Supplier at least one opportunity to remedy the notified defect.

Art. 7 – Penalties for late deliveries

[...]

If any event, if delays exceed 30(thirty) days, for reasons solely attributable to Supplier, the Purchaser shall be entitled to terminate the Order, after having granted the Supplier a last and reasonable opportunity to perform within 10 days from the delay notification, fully or in part, by simple written notice under art. 14556 of the Italian Civil Code, without prejudice to compensation for any damage incurred.

[...]

Art. 8 – Liability

[...]

Supplier's indemnification obligation shall be subject to the following conditions:

- i. Purchaser shall furnish Supplier with written notice of any such claim within thirty (30) days of the date, on which Purchaser receives notice in writing or text form thereof,
- ii. Purchaser coordinates with Supplier, and puts Supplier in a position to participate in, the defense, settlement and discharge of such claims, and
- iii. Purchaser shall furnish Supplier with assistance reasonably requested by Supplier in connection with the defense, settlement and discharge of such claims and liabilities at Supplier's costs.

Except for (i) damages caused by either Partys willful misconduct or gross negligence or (ii) for bodily injuries (where the Parties' liability shall in either case be unlimited), Parties' aggregate liability for any costs, damages and expenses whether under contract (including without limitation breach of guarantees [if any]), tort or otherwise shall be limited to 100 % of the Order Price.

Art. 10 – Force majeure

[...]

Due to current developments and measures taken globally, nationally and locally in connection with the World Health Organization's declared public health emergency in respect of the COVID-19 pandemic, Supplier's offered goods and/or services can be negatively affected. Although Supplier is taking actions to mitigate potential supply impacts, please be advised that our choice of suppliers / subcontractors, delivery lead-times, engineering and/or site services, quoted prices, etc. may be impacted due to the COVID-19 pandemic.

Such adverse effects may, in particular, be caused by or occur in response to actions taken by a government or public authority (including the imposition of embargoes or import or export restrictions, quarantine orders, travel restrictions or any other restrictions or prohibitions and the compliance by Supplier or any of its sub-suppliers of any tier with corresponding laws or governmental orders, rules, regulations, directions, recommendations or precautions). The coronavirus pandemic and these effects may inter alia result in excessive illness rates of personnel, difficulties or increased costs in obtaining workers or goods, inability to transport goods or persons across borders, other travel restrictions or mobility impairments, personnel and/or material shortages, delays or other adverse circumstances affecting the supply of goods or services.

Accordingly, the Parties shall agree in good faith upon the necessary changes of the time schedule and/or any additional costs and/or cancellation of the Order.



Art. 13 – Warranty

[...]

If, during this warranty period, defects and/or faults are detected, the Supplier shall, within 10 (ten) days of the notice, repair or replace the Supply. In case Supplier needs to order parts to be able to rectify the respective defect, the Parties shall agree upon a period reasonably taking into account the delivery time of such part(s).

[...]

Art. 15 – Intellectual and industrial property rights

[...]

In the event of termination of an Order, regardless of the reason for such termination, the Supplier shall deliver to the Purchaser within ten (10) calendar days from the termination of the Order, all elements and documents produced in connection with such Order ("Documentation") and having affected the agreed advance payment, and the Purchaser shall not have to make such express request. Purchaser shall have the fully paid-up, non-exclusive, non-transferable and unlimited right and license to use such Documentation to assemble, commission, use and maintain the Supply covered by the Order at the place originally delivered and for no other purpose.

[...]

Art. 21 – No assignment of the Order – Data’s variation

[...]

Till the successful completion of the mentioned procedures, the performance of the Supply and/or the relevant payments may be suspended by the Purchaser on terms to be agreed with Supplier.

Art. 23 – Withdrawal

[...]

In such event the Purchaser shall pay the Supplier according to the following schedule:

Month	POC	Termination until
1	8 %	26.11.2021
2	21 %	21.12.2021
3	54 %	28.01.2022
4	87 %	25.02.2022
5	100 %	N/A

Art. 24 – Express termination clause

To be replaced by:

Either Party may terminate the Contract by giving written notice thereof to the other Party if:

- (a) The other Party fails to pay any monetary obligation when due under this Contract within 30 days of written notice of such failure,
- (b) The other Party fails to perform any material obligation under this Contract (other than any payment obligation) and has not taken action to commence to cure the failure within 10 days of written notice of such failure or does not diligently pursue such cure thereafter, including without limitation breach of the Article 2, para. 3 (waiver to sale conditions); Article 4, para. 1 (skills) and last para. (documentation and information); Article 5, last para. (solutions to non-compliances); Article 6, para. 1 (delivery terms); Article 8 (liabilities); Article 9 (REACH regulation); Article 11 (deliveries and packaging); Article 16 (technical documents); Article 21 (no assignment); Article 25 (Compliance with laws and Trinseo Group’s Supplier Code of Conduct).

In case Supplier needs to order parts to be able to rectify the respective defect, the Parties shall agree upon a period reasonably taking into account the delivery time of such part(s).

- (c) The other Party ceases to conduct its business or becomes bankrupt, insolvent or otherwise unable to pay its bills when due.



(d)

Art. 26 – Patented production supplies

The supplier warrants that the Supply is not produced by infringing patents or licenses as it warrants its lawful use and trade, in Italy.

*** **

Place and Date: Ettlingen/Milano 15.11.2021

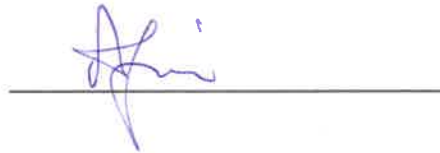


Supplier:

i.V.



Purchaser



Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

DATA

Maggio 2022

PROGETTO

22502I

PAGINA

11 di 14

**ALLEGATO 5 – DOCUMENTO DI TRASPORTO SISTEMA DI ABBATTIMENTO
SCRUBBER**

2 Egzemplarz dla odbiorcy
Exemplar für den Empfänger
Copy for consignee

www.leo-trans.pl

tel. +48 71 38 96 700
email: **dispo@leo-trans.pl**



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Die mit fet. gedruckten Linien eingerahmten Rubriken müssen vom Frachtführer ausgefüllt werden.
The spaces framed with heavy lines must be filled in by the carrier.

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Auszufüllen unter der Verantwortung des Absenders
To be completed on the sender's responsibility

19 + 20 + 22

1 Nadawca (nazwisko lub nazwa, adres, kraj) Absender (Name, Anschrift, Land) Sender (name, address, country) JD Kunststoffverarbeitung GmbH Industriestraße 1-3 • 64683 Einhausen Tel. 0 62 51 / 50 70 • Fax 0 62 51 / 5 65 39		MIĘDZYNARODOWY SAMOCHODOWY LIST PRZEWOZOWY INTERNATIONALER FRACHTBRIEF INTERNATIONAL CONSIGNMENT <div style="text-align: right; border: 1px solid black; padding: 2px;">CMR</div> <p>Niniejszy przewóz podlega postanowieniom konwencji o umowie międzynarodowej przewozu drogowego towarów (CMR) bez względu na jakakolwiek przeciwną klauzulę. Diese Beförderung unterliegt trotz einer gegenteiligen Abmachung den Bestimmungen des Übereinkommens über den Beförderungsvertrag im internationalen Strassengüterverkehr (CMR)</p> <p>This carriage is subject notwithstanding any clause to the contrary, to the Convention on the Contract for the international Carriage of goods by road (CMR)</p>																													
2 Odbiorca (nazwisko lub nazwa, adres, kraj) Empfänger (Name, Anschrift, Land) Consignee (name, address, country) <i>Actu glas SRL Socio Unico</i> <i>Stabici mente di Porto</i> <i>Marghera, Villa della Chimica S</i> <i>1-30775 Porto Marghera</i>		16 Przewoźnik (nazwisko lub nazwa, adres, kraj) Frachtführer (Name, Anschrift, Land) Carrier (name, address, country) <div style="text-align: center;">  Leo-Trans Maciej Lew Sp. k. Powstańców Wlkp. 2a, 56-300 Milicz NIP: PL9161394799, REGON: 361816963 tel. +48 71 38 96 700, fax. +48 71 750 9111 </div>																													
3 Miejsce przeznaczenia (miejscowość, kraj) Auslieferungsort des Gutes (Ort, Land) Place of delivery of the goods (place, country) <i>Porto Marghera</i>		17 Kolejni przewoźnicy (nazwisko lub nazwa, adres, kraj) Nachfolgende Frachtführer (Name, Anschrift, Land) Successive carriers (Name, address, country)																													
4 Miejsce i data załadowania (miejscowość, kraj, data) Ort und Tag der Übernahme des Gutes (Ort, Land, Datum) Place and date taking over the goods (place, country, date) <i>29.03.22</i>		18 Zastrzeżenia i uwagi przewoźnika Vorbehalte und Bemerkungen der Frachtführer Carrier's reservations and observations																													
5 Załączone dokumenty Beigefügte Dokumente Documents attached <i>Packe liste</i>		NR REJ: <i>DMI 30164</i>																													
6 Cechy i numery Kennzeichen und Nummern Marks and Nos	7 Ilość sztuk Anzahl der Packstücke Number of packages <i>5</i>	8 Sposób opakowania Art der Verpackung Method of packing <i>Paczki</i> <i>kon tons</i>	9 Rodzaj towaru Bezeichnung des Gutes Nature of the goods <i>Sien</i> <i>Pod. list</i>																												
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21 Wystawiono w Ausgefertigt in Established in dnia am on <i>29.03.22</i>		15 Zapłała / Rückerstattung / Cash on deliver																													
22 <i>i. i. S. J. mm</i> Podpis i stempel nadawcy Unterschrift und Stempel des Absenders Signature and stamp of the sender.		23 <div style="text-align: center;">  Leo-Trans Maciej Lew Sp. k. Powstańców Wlkp. 2a, 56-300 Milicz NIP: PL9161394799, REGON: 361816963 tel. +48 71 38 96 700, fax. +48 71 750 9111 </div> Podpis i stempel przewoźnika Unterschrift und Stempel des Frachtführers Signature and stamp of the carrier																													
24 Przesyłkę otrzymano / Gut empfangen / Goods received Miejsowość Ort Place dnia am on <i>30/03/22</i> <i>5076 Via della Chimica - VF</i> <i>mento di Porto Marghera - VF</i> <i>Socio Unico</i> <i>ACTUGLAS S.r.l.</i> Podpis i stempel odbiorcy Unterschrift und Stempel des Empfängers Signature and stamp of the consignee																															

I W przypadku przewozu towarów niebezpiecznych, apozek ewentualnego posiadania zastrzeżenia, należy podać w ostatnim wierszu klasy, liczbę oraz w danym przypadku literę.
Bei gefährlichen Gütern ist, ausser der eventuellen Bescheinigung, auf der letzten Linie der Rubrik anzugeben, die Klasse, die Ziffer, sowie gegebenenfalls der Buchstabe.
In case of dangerous goods mention, besides the possible certification on the last line of the column the particulars of the class, the number and the letter, if any.

PACKING LIST - NO. 01524



GEA WIEGAND GMBH

Am Hardtwald 1
D-76275 Ettlingen
Job-No.: SW-65-21-01524
Date: 23.03.2022
Page 1 of 1

Collection address:

JD-Kunststoffverarbeitung GmbH
Industriestraße 1-3
64683 Einhausen
Marco Guthier
+49 (6251) 96 52 17

Delivery address:

ALTUGLAS SRL Socio Unico
Stabilimento di PORTO
MARGHERA
Via della Chimica 5
I-30175 PORTO MARGHERA
(VENEZIA) VE

Packages		Weights		Measurements					Item No.	DESCRIPTION OF GOODS AND/OR SERVICES: Order 3100001891				
No.	Qty.	Kind*	in kg	Net	Gross	in m ³	Length	Width	Height		in cm			
1.	1	9	850	900	900	9,758	280	x	170	x	205			
2.	1	9	100	120	120	2,400	120	x	250	x	80			
3.	1	9	30	30	40	0,704	110	x	80	x	80			
4.	1	9	30	30	35	0,768	120	x	80	x	80			
5.	1	9	30	30	35	0,768	120	x	80	x	80			
	5	Colli	1040	1130	1130	14,398	* 1 case		4 sledge	7 drum				
			kg	kg	kg	cbm	2 crate	5 bundle	8 cask					
							3 unpacked	6 carton	9 pallet					
Terms of Delivery: DAP Porto Marghera														

GEA Wiegand GmbH

Am Hardtwald 1, 76275 Ettlingen, Deutschland
Tel. +49 7243 705 0, www.gea-wiegand.de, gea-wiegand.info@gea.com
Sitz der Gesellschaft: Ettlingen, Handelsregister: Amtsgericht Mannheim HRB 360206, USt-Id Nr.: DE811154462
Geschäftsführung / Management Board: Dr.-Ing. Christopher Braun (Vorsitzender / Chairman), Frank Bömer
Deutsche Bank Karlsruhe (BLZ 660 700 04) 794 875, Steuer-Nr.: 105 5857 1004
IBAN: DE91 6607 0004 0079 4875 00; BIC: DEUTDE33M660

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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ALLEGATO 6 – DOCUMENTO DI TRASPORTO POMPE REINTEGRO REAGENTE

weiß = Exemplar für Auftraggeber blau = Exemplaire pour committente wit = Exemplaar voor lastgever blanco = Esemplare per committente white = Copy for orderer hvid = Exemplar for ordregiver
 rosa = Exemplar für Absender rose = Exemplaire de l'expéditeur rose = Exemplaar voor afzender rosa = Esemplare per mittente pink = Copy for sender rosa = Exemplar for afsender
 blau = Exemplar für Empfänger bleu = Exemplaire du destinataire blau = Exemplaar voor geadresseerde blu = Esemplare per destinatario blue = Copy for consignee bla = Exemplar for mochtager
 grün = Exemplar für Frachtführer vert = Exemplaire du transporteur groen = Exemplaar voor vervoerder verde = Esemplare per trasportatore green = Copy for carrier grön = Exemplar for beforsrer

1 Absender (Name, Anschrift, Land)
Expéditeur (nom, adresse, pays)

JD Kunststoffverarbeitung GmbH
Industriestraße 1-3 • 64683 Einhausen
Tel. 062 51 / 50 70 • Fax 0 62 51 / 5 65 39

INTERNATIONALER FRACHTBRIEF
LETTRE DE VOITURE INTERNATIONAL

Diese Beförderung unterliegt trotz einer gegenteiligen Abmachung den Bestimmungen des Übereinkommens über den Beförderungsvertrag im internationalen Straßengüterverkehr (CMR).

Ce transport est soumis, nonobstant toute clause contraire, à la Convention relative au contrat de transport international de marchandises par route (CMR).

2 Empfänger (Name, Anschrift, Land)
Destinataire (nom, adresse, pays)

*Altuglas SRL Socio Unico
Marghera, Villa della Chimica 5
1-30175 Porto Marghera*

16 Frachtführer (Name, Anschrift, Land)
Transporteur (nom, adresse, pays)

F.H.U. "DA-DA"
Grzegorz Zdanowski
08-140 Mordy, Radzików Wielki
ul. Plebańska 20
NIP 821-187-53-60; REG: 710286321
POL/051/9882

3 Auslieferungsort des Gutes
Lieu prévu pour la livraison de la marchandise

Ort/Lieu: *Porto Marghera*
Land/Pays: *03.05.22*

17 Nachfolgende Frachtführer (Name, Anschrift, Land)
Transporteurs successifs (nom, adresse, pays)

4 Ort und Tag der Übernahme des Gutes
Lieu et date de la prise en charge de la marchandise

Ort/Lieu: *03.05.22*
Land/Pays:
Datum/Date:

18 Vorbehalte und Bemerkungen der Frachtführer
Réserves et observations des transporteurs

5 Beiliegende Dokumente
Documents annexés

Packliste

6 Kennzeichen u. Nummern
Marques et numéros **7** Anzahl der Packstücke
Nombre des colis **8** Art der Verpackung
Mode d'emballage **9** Offiz. Benennung f. d. Beförderung
Désignation officielle de transport * **10** Statistiknummer
No. statistique **11** Bruttogewicht in kg
Poids brut, kg **12** Umfang in m³
Cubage m³

A Kiste 6,100 kg

CMR

UN-Nummer
Numéro UN: **UN**
Ben. s. Nr. 9
Nom volt N°9:
Gefahrzettelmuster-Nr.
Numéro d'étiquette:
Verp.-Gruppe
Groupe d'emballage:
Tunnelbeschränkungscode
Code de restriction en tunnels:

19 zu zahlen vom:
A payer par:

Absender L'expéditeur	Währung Monnaie	Empfänger Le Destinataire
Fracht Prix de transport		
Ermäßigungen Réductions		
Zwischensumme Solde		
Zuschläge Suppléments		
Nebengebühren Frais accessoires		
Sonstiges Divers		
Zu zahlende Gesamtsumme/Total à payer		

13 Anweisungen des Absenders (Zoll- und sonstige amtliche Behandlung)
Instructions de l'expéditeur (formalités douanières et autres) Prescriptions particulières

14 Rückerstattung
Remboursement

15 Frachtzahlungsanweisungen
Prescription d'affranchissement

Frei
Franco
Unfrei
Non Franco

20 Besondere Vereinbarungen
Conventions particulières

21 Ausgefertigt in
Etablie à: *am le*

24 Gut empfangen
Réception des marchandises Datum
Date: *04-05-22*

ALTUGLAS S.r.l.
Socio Unico
Stabilimento di Porto Marghera - VE
80176 Via della Chimica, 5

Unterschrift und Stempel des Empfängers
(Signature et timbre du destinataire)

22 **JD Kunststoffverarbeitung GmbH**
Industriestraße 1-3 • 64683 Einhausen
Tel. 062 51 / 50 70 • Fax 0 62 51 / 5 65 39

28U. "DA-DA"
Grzegorz Zdanowski
08-140 Mordy, Radzików Wielki
ul. Plebańska 20
NIP 821-187-53-60; REG: 710286321
POL/051/9882

25 Angaben zur Ermittlung der Entfernungen mit Grenzübergängen

von	bis	km

Paletten-Absender - Expéditeur des palettes

Art	Anzahl	Kein Tausch	Tausch
Euro-Palette			
Gitterbox-Palette			
Einfach-Palette			

Paletten-Empfänger - Destinataire des palettes

Art	Anzahl	Kein Tausch	Tausch
Euro-Palette			
Gitterbox-Palette			
Einfach-Palette			

26 Vertragspartner des Frachtführers

27 Amtliches Kennzeichen Nutzlast in kg

Kfz:
Anhänger:

Bestätigung des Empfängers/Datum/Unterschrift Bestätigung des Empfängers/Datum/Unterschrift

Benutzte Gen.-Nr. National Bilateral EG CEMT

Les parties encadrées de lignes grasses doivent être remplies par le transporteur.

Die mit fett gedruckten Linien eingerahmten Rubriken müssen vom Frachtführer ausgefüllt werden.

1-15 einschließlich y compris et

21-22

Ausfüllen unter der Verantwortung des Absenders.
A remplir sous la responsabilité de l'expéditeur.

* Bei gefährlichen Gütern ist in der letzten Zeile der Rubrik einzugeben: UN-Nummer, Gefährlichkeitsnummer und Verpackungsgruppe. Güter der Klasse 1 und 7: siehe Sonderdokumentation Absatz 6.4.1.11 ADR.
* En cas de marchandises dangereuses, indiquer à la dernière ligne du cadre: Numéro ONU, Numéro d'étiquette et Groupe d'emballage. Marchandises des classes 1 et 7: voir demande spéciale dans ADR, Chapitre 5.4.1.11.



PACKING LIST - NO. 01524-2

GEA WIEGAND GMBH

Am Hardtwald 1
D-76275 Ettlingen
Job-No.: SW-65-21-01524
Date: 02.05.2022
Page 1 of 1

Delivery address:

ALTUGLAS SRL Socio Unico
Stabilimento di PORTO
MARGHERA
Via della Chimica 5
I-30175 PORTO MARGHERA
(VENEZIA) VE

Collection address:

JD-Kunststoffverarbeitung GmbH
Industriestraße 1-3
64683 Einhausen
Marco Guthner
+49 (6251) 96 52 17

Packages		Weights		Measurements			Item No.	DESCRIPTION OF GOODS AND/OR SERVICES:			
No.	Qty.	Kind*	in kg		Volume	in cm		Pieces	Detail -Description of goods		
			Net	Gross		Length	Width			Height	
1.	1	1	60	100	0,934	115	65	X	125	Dosing station	Order 3100001891
	1	Colli	60 kg	100 kg	0,934 cbm	* 1 case	4 sledge	7 drum			
						2 crate	5 bundle	8 cask			
						3 unpacked	6 carton	9 pallet			
Terms of Delivery: DAP Porto Marghera											

GEA Wiegand GmbH
Am Hardtwald 1, 76275 Ettlingen, Deutschland
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Geschäftsleitung / Management Board: Dr.-Ing. Christopher Braun (Vorsitzender / Chairman), Frank Börner
Deutsche Bank Karlsruhe (BLZ 660 700 04) 794 875, Steuer-Nr.: 105 5857 1004
IBAN: DE91 6607 0004 0079 4875 00; BIC: DEUTDE33HAN30

Ricevuta 04/05/2022
Stube Sep

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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ALLEGATO 7 – SCHEDA TECNICA DEL SISTEMA DI ABBATTIMENTO SCRUBBER

Scheda tecnica
scrubber
camino E09

DESCRIZIONE SISTEMA DI ABBATTIMENTO

Il camino E09 è posizionato nell'impianto per il pre-trattamento delle acque di processo ed è il punto di sfiato delle tre vasche V2, V3, e V4. Al camino E09 si collezionano anche gli sfiati dei due serbatoi di stoccaggio DA401A e DA401B con una capacità di 1000 m³ ciascuno, dedicati alla gestione delle acque di processo fuori standard.

A monte del camino E09 è stato implementato un sistema di abbattimento per limitare l'emissione di inquinanti come cloro e acido cianidrico.

- VLE Cl₂ = 2 mg / Nm³
- VLE HCN = 1 mg/Nm³

Il sistema di abbattimento implementato è uno skid composto da due stadi di abbattimento, uno in equicorrente ed uno in controcorrente.

La fase liquida per l'abbattimento degli inquinanti gassosi è una soluzione basica di NaOH.

Lo scrubber è equipaggiato con due ventilatori (uno operativo e uno di riserva, GB231A e GB231B) che aspirano gli sfiati delle vasche per convogliarli al sistema di abbattimento. Il gas entra nella prima fase di lavaggio, che consiste in uno scrubber spray (S-201). In questa prima colonna avviene la rimozione principale degli inquinanti Cl₂ e HCN. Successivamente la fase gas attraversa una griglia separatrice che rimuove l'umidità prima che il flusso del gas entri nel secondo stadio di abbattimento.

Il secondo stadio è una colonna di abbattimento in controcorrente (C-201), contenente materiale di riempimento random ad anelli per aumentare la superficie di scambio tra fase liquida e fase gas. La soluzione basica è alimentata in testa alla colonna mediante un distributore conico ad ugelli. In questo secondo abbattimento, la colonna assorbe gli inquinanti rimanenti per garantire il rispetto dei limiti di concentrazione in uscita. Un demister è installato in testa alla colonna per trattenere il trascinarsi di gocce prima che il gas lasci lo scrubber.

Il loop di riflusso della soluzione basica viene movimentato con l'utilizzo di due pompe centrifughe (una operativa e una spare, GA230A e GA230B).

La soluzione basica circolante viene monitorata (pHmetro AT6606) e mantenuta a pH 10 mediante l'aggiunta di una soluzione di NaOH al 10%, utilizzando una pompa dosatrice (GA232). Un sensore di conducibilità (AT6605) controlla il contenuto di sale nell'acqua di lavaggio. Se la concentrazione è troppo alta, il liquido di lavaggio viene scaricato.

La pressione a monte dello scrubber è impostata a -10 mmH₂O e viene regolata con un controllo in split range (PT6602). Il controllo di pressione può agire sull'inverter che regola il numero di giri dei motori dei ventilatori e sull'apertura della valvola della portata di riciclo della fase gas.

Il livello di riempimento del tank di raccolta posizionato sotto lo scrubber è controllato da un misuratore di livello a pressione differenziale (LT6601). Il controllo agisce sull'apertura della valvola che alimenta acqua al sistema in funzione del livello misurato. Un interruttore di basso livello (LSL6610) disattiva le pompe per la protezione contro il funzionamento a secco.

Un misuratore di portata (FT6607) monitora il flusso della fase liquida ai due stadi dello scrubber, inviando un allarme quando il flusso è troppo basso, mentre un altro misuratore di portata (FT6608) monitora il flusso dello scarico del fluido.

Una sonda di temperatura (TT6609) monitora la temperatura del fluido nel serbatoio, inviando un allarme se la temperatura supera un valore limite.

Le condizioni operative del sistema di abbattimento per le emissioni convogliate al camino E09 sono indicate nella scheda tecnica seguente.

ALTUGLAS S.r.l.

**SCHEDA ABBATTITORE A UMIDO
SCRUBBER A TORRE**

Emissione: **CAMINO E09**

Sigla
abbattitore: **C-201**

Servizio: Impianto AM9 – Emissione sfiati vasche dell'impianto di pre-trattamento delle acque di processo

Funzionamento: Sistema abbattimento HCN/Cl₂ a umido - Emissione continua

Caratteristiche flusso trattato

Portata
emissione: 330
Nmc/h

Pressione : 0
mbar

Tipo materiale abbattuto: Composti gassosi

Inquinanti: Cl₂, HCN

Tipo misura:

PT-6602 a DCS
PT-6611 a DCS

Caratteristiche flusso abbattente

Portata riciclo: 14 m³/h

Portata riciclo inferiore: 30-38 mc/h

pH: 10

Temperatura riciclo: 25-35 °C

Tipo misura:

FT8033 a DCS

FT6607 a DCS

AT-6606 a DCS

TT6604 a DCS

Apparati
aggiuntivi:

Note

Prescrizione PIC

Richiesta di proroga prescrizione n.11 e nota (1) tabella 1 di cui al paragrafo 10.4.1.1 del PIC del Decreto AIA

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ALLEGATO 8 – FOTO SISTEMA DI ABBATTIMENTO INSTALLATO

