

کلیات مجموعه و ایمنی:

میکسر با ظرفیت 5 تن قابلیت میکس کردن مواد در بازه های اسیدی و بازی را شامل می باشد، که پره های همزن میکسر مطابق با استاندارد های جهانی و به صورت یکپارچه (ماشین کاری نوین) ساخته خواهد شد، با توجه به اینکه تولیدات محصولات بهداشتی در این میکسر صورت میگیرد پرداخت سطحی، سطوح داخلی پره ها از اهمیت بالایی برخوردار است، از همین جهت جهت صافی سطح مورد نیاز سطوح  $Ra = 0.8\mu m$  می باشد، همچنین کلیه جوشکاری ها و اتصالات توسط ربات تحت شرایط کنترل شده صورت میپذیرد، با توجه به فرمولاسیون ویژه این مجموعه کلیه تجهیزات اندازه گیری و انتقال مواد ضد انفجار می باشد.

دوزینگ و اتوماسیون:

سیستم تزریق مواد به درون سیستم کاملاً اتوماتیک و بدون دخالت فرد با استفاده از سیستم فلومتریک (FLOWMETRIC) صورت میگیرد، این امر موجب میشود که پارامترهای نهایی محصول مطابق با استاندارد باشند. این میکسر مجهز به سیستم اتوماسیونی است که قادر به نگهداری محصول در دمای مشخص می باشد و هرگونه تغییرات دمایی را به صورت اتوماتیک جبران می کند.

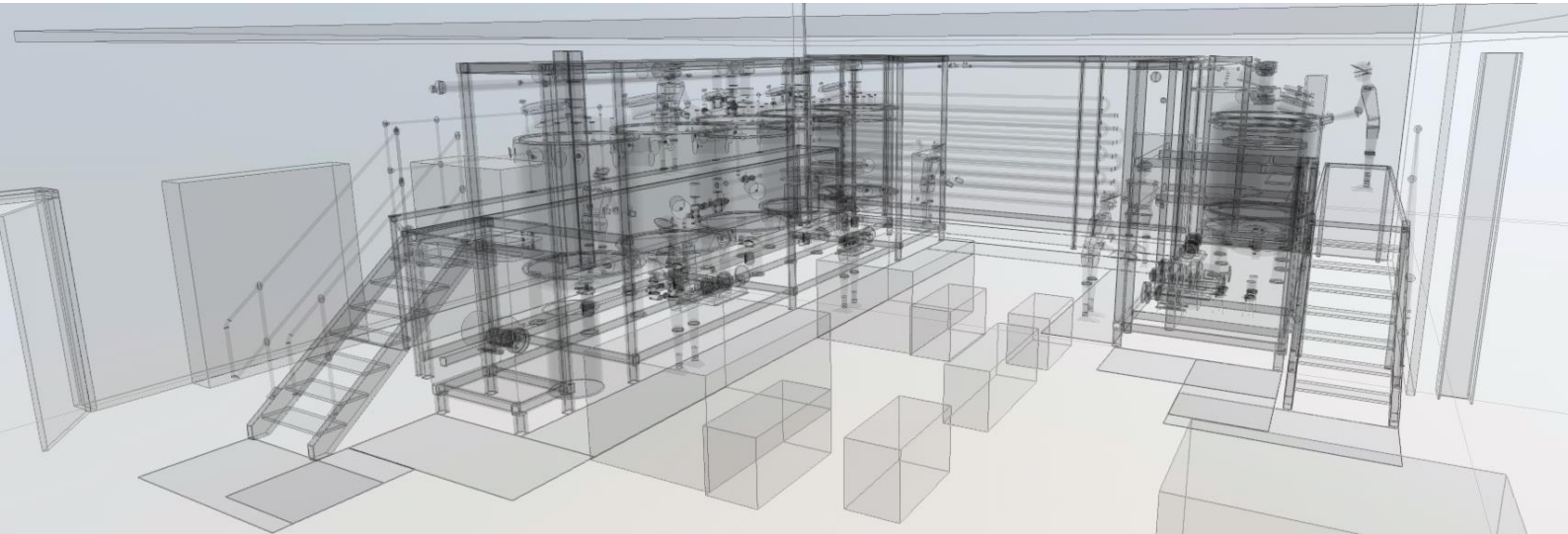
کلیه خطاهای صورت گرفته در سیستم میکسر قابلیت تشخیص، عیب یابی و ثبت گزارش دارند. مجموعه میکسر قابلیت گزارش دهی میزان انحراف مواد، آب مصرفی برای شست و شو را در کلیه بچ های تولیدی دارد.

آنزیم و سلامت کارکنان:

نظر به اینکه وجود آنزیم و بخارات اسید سلامت پرسنل این مجموعه را در معرض خطر قرار میدهد میکسر و متعلقات آن شامل مجموعه تصفیه هوا و خنثی سازی می باشد، این سیستم به گونه ایست که شبیه ساز تنفس انسان را دارا می باشد و مانع از افزایش ذرات معلق ناسالم در هوا می شود.

شست و شو و محیط زیست:

کلیه شست و شوی مسیر ها و میکسر به صورت اتوماتیک و فول هایژنیک بهینه سازی و هوشمند سازی شده است، به گونه ای که از میزان هدر رفت آب جلوگیری میکند، این امر کمک میکند تا تصفیه پس ماند آب شست شو شده ورودی به سیستم فاضلاب شهری با سهولت بیشتری صورت یابد.



# TECHNO-COMMERCIAL OFFER

## Iran 5m3 HCL System

CLIENT:



Revision	Purpose of Issue	Prepared by	Approved by	Date
A	For Budgetary	KC	TT	2022-06-13
B	For Budgetary	HC	WW	2022-11-29
C	For Budgetary	LW	HC	2022-12-09
D	For Quotation	LW	HC	2023-01-04
E	For Quotation	HC	WW	2023-01-11
F	For Quotation	HC	WW	2023-05-03
G	For Quotation	HC	WW	2023-05-30



Fabricated Components



Tanks / Vessels / Heat Exchangers



Process Skids



Process Systems

➤ PHARMACEUTICAL

➤ FINE-CHEMICAL

➤ FMCG

➤ FOOD & BEVERAGE

➤ BIOLOGICAL

➤ DAIRY

To:	From:
<b>UNILEVER IRAN (P.J.S.C)</b> Head office: No.23, Zagros Srreet, Alvand Street, Arzhantin Square, Tehran, Iran Postal Code: 1516683114 Tel: +98 21 87719800 FAX: +98 21 87719599 FAO: Sakir Ersan	<b>SYNCS Netherlands B.V.</b> Dorpsweg 51A, 1711RE Hensbroek, The Netherlands IBAN-nr: NL20 BUNQ 2056 4342 37 KvK-nr: 81804903
	Cc: Alper Coskun

Dear Sakir,

We are delighted to submit our budgetary quotation for the detailed design, supply, installation and commissioning of the following process equipment to your plant at Iran.

### SCOPE OF SUPPLY

#### ➤ New 5m<sup>3</sup> HCL Mixing Skid

Item	MOC	Jacket	Agitators	Spray Balls	Pump	VFD	Load Cells	In-line Mixer	PHE
5 m <sup>3</sup> Main Mixer	SS316L	-	FAS	✓	Lobe	✓	✓	✓	✓
0.75 m <sup>3</sup> Quat Premixer	SS316L	Heating	FAS	✓	-	-	✓	-	-
0.5 m <sup>3</sup> Fabclean Premixer	SS316L	Heating	FAS	✓	-	-	✓	-	-
0.3 m <sup>3</sup> Premelter	SS316L	Heating	Pitch Blade	✓	-	-	✓	-	-
60L Dye pot	SS316L	-	Pitch Blade	✓	-	-	✓	-	-
60L Caustic pot	SS316L	-	-	-	-	-	✓	-	-
10m <sup>3</sup> Holding tank X 2	SS316L	-	-	✓	Lobe	✓	-	-	-

- 1nos lobe pump from holding tanks to filler

- 3nos IBC Station each with:

☑ 1 nos IBC station with 200L under tote

☑ 1 nos lobe pump with PRV

☑ 1 nos mass flow meter on the main pipe header

☑ Valves / Instruments / Piping / Control

#### ➤ Hydrochloric Acid Skid

☑ IBC Station

☑ 1.5m<sup>3</sup> Storage tank

☑ HCL Scrubber

☑ HCL Scrubber recirculation pump

☑ Fans

☑ Valves / Instruments / PE Piping / Control

#### ➤ Downflow Booth

☑ MOC: SS304

☑ Air flow rate: 0.4-0.6m/s, Filtration level: H14

☑ Lighting >500lux

#### ➤ IBC Station for Enzyme

-3nos IBC Station each with:

☑ 1 nos IBC station with 200L under tote

☑ 1 nos lobe pump with PRV

☑ 1 nos mass flow meter on the main pipe header

☑ Valves / Instruments / Piping / Control

#### ➤ 3XDrum Station for Perfume

☑ 3x diaphragm pumps

☑ 1x platform scale with digital screen, MOC SS304

☑ Valves / Instruments / Piping / Control

☑ Ventilation

☑ Flushing from manifold valve to mixer

☑ Explosion-proof

#### ➤ 1 sets of CIP Skid

Address:	Tel:	Web:
安徽省六安市裕安经济开发区振东大道 666 号 237000	+86(0)564-2272 666	www.syncs.com
#666 Zhendong Avenue, Yu'An District, Lu'an, Anhui, 237000		Page 2 of 5

- 1 of CIP Balance tank without insulation
- 1 of Plate Heat Exchanger
- 1 of CIP recirculation pump
- 1 of Sanitizer dosing pump
- 1 sets of Elevator
  - Hydraulic lifting, speed 80mm/s, max lifting height 8 m
  - Door interlock with safety switch, overloading protection
  - MOC SS304
  - Dimension estimated at 600x1000mm, loading capacity 300kg
- 1 sets of Quat Drum Oven
  - 1xOven from WILL & HAHNENSTEIN GMBH
  - Temperature maintained at 50-85 °C
  - Ex-proof EEX II 2G EX IIA/IIB for zone 1 and zone 2, temperature class T4
  - Rollways
  - Hot water supply
- 1 sets Flosoft skid
  - 1x1.5m3 Tank, MOC SS316L
  - 1xDrum station
  - 1xPolymer slicing unit made by SYNCS
- Miscellaneous
  - Piping and fittings, piping standard to be ASME 3A, Union connection to DIN11864
  - MCC Panel, LCS Panel, Electrical Cables and Cable Tray
  - Instrumentations, RIO Panels
  - HMI, PLC S7Control System (PCS 7 as an option in the price summary)
  - Structural Frame, Platform, Stair Case and Handrails

### PRICE SUMMARY

No.	SYSTEM	DESCRIPTION	PRICE (EUR)	REMARKS
1	New 5m <sup>3</sup> HCL Mixing Skid	<input checked="" type="checkbox"/> Equipment/Materials Supply	€ 1,613,000	CIF Delivery
2	Hydrochloric Acid Skid	<input checked="" type="checkbox"/> Process Design, 3D Model Design	€ 100,000	
3	Downflow Booth	<input checked="" type="checkbox"/> Engineering & PM Cost	€ 60,000	
4	3x IBC Station for Enzyme	<input checked="" type="checkbox"/> Fabrication Cost	€ 150,000	
5	CIP Skid	<input checked="" type="checkbox"/> FAT, Documentation and Insurance Cost <input checked="" type="checkbox"/> Crating & Logistics to Port	€ 145,000	
6	Site Installation		€ 120,000	
7	Commissioning		€ 30,000	2pps for 2 weeks
		TOTAL:	€ 2,218,000	
	Deduction	Ocean freight to Bandar Abbas port :	- € 27,500	
		Total Price (after ocean freight) :	€ 2,190,500	FOB Shanghai port
1	Option	Quat Oven from W&H	€ 128,000	
		Shipment and handling to China for Quat Oven	€ 11,000	
		Utility material, Assembly and commissioning for Quat Oven in China	€ 13,000	
		Pass-through of Quat Oven (10%)	€ 12,800	
2		1xHydraulic Elevator	€ 25,500	
3		3xPerfume Drum Stations	€ 36,000	
		1xPlatform scale	€ 8,500	
4		Extra cost for control system PCS 7	€ 32,000	
5		Extra structural platform for storage tank	€ 28,500	
6		1.5m <sup>3</sup> Flosoft skid	€ 105,000	

### SCOPE OF SUPPLY

Scope of Supply	Engineering (Detailed)	Procurement	FAT	CIF Delivery	Site Installation	Installation Support	Commissioning
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Mechanical	Electrical	Instrumentation	Control (Hardware)	Control (Software)	Structures	Dust Ventilation
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## DEVIATIONS & EXCLUSIONS

The following items are excluded from the scope of supply:

- Custom Clearance, Duty, Local Tax if any.
- Custom Clearance and road transportation from port to the site, unloading from truck to site, and crane & machineries required during installation.
- The local permit application or approval for any local legislation if any related to the design, supply and installation of process skids.
- UL/CE certificate for structure and the entire skid.
- Foundation, Bund, ground drainage, Building Works, Building Lighting, Building HVAC and Sprinklers.
- Supporting structures for the process skids and the holding down anchors for the skids structure columns.
- Logistic from port to site, unloading, installation and commissioning
- Any disassembly/modification of existing equipment/building structures.
- LEV system and goods lift
- The supply and installation of the cable for the power supply from PCC to the MCC panels.
- Any spare part apart from default spare parts from OEM vendors.
- Material handling equipment ( Drum, KEG, BOPT, Pallets, etc.).
- The piping to connect from the existing utilities supply in plant to the new process skid.
- Any utilities supply including, hot water, process water, compressed air.

For clarification purpose, the above items are excluded or deviated from our scope of supply. Selected items can be added to our scope of supply for client's easy management.

## ASSUMPTIONS

- Single mechanical seal for all pump/agitator.
- No explosion proof required for all motors, instrumentations and panels except for Quat line.
- Main mixer will connect to 3 product storage tank and no valve matrix for storage tanks, 3 storage tanks will connect to one pump and pump to one filler.
- The utilities/power supply available on site is sufficient and ready before installation and commissioning.
- The supporting slab has sufficient capability for the new mixing system.
- MCC panel will not comply with Form 3B.
- The accessibility on the site is sufficient for moving the process skid into final position.
- All reused items will be disassembled and shipped to SYNCS factory for integration by client.
- All existing equipment or components which are to be reused are assumed to be fully function. Otherwise cost of new replacement and related engineering cost will be additionally charged.
- All utility/process/raw material piping will be ready with shut off valves and close to skid.
- Facilities (office, canteen, storage room etc.) and consumables (water, electricity and compressed air etc.) during site installation will be provided by client.
- Waste management (packing material of skid and waste water during site installation) will handled by client.
- The length of the duct from DFB to the outside  $\leq$  20m.
- Technical queries and approval from the client should be executed within three working days after it is raised. Otherwise, it is deemed to be accepted.
- The price is based on equipment selected from the enclosed OEM vendor list.

## DELIVERY TIME

The following schedule are expected, with heavy rely on the site conditions readiness and the required input or approval from the client.

- 28 Weeks from PO placement to ready for FAT
- 6 Weeks for logistics including sea shipping
- 6 Weeks for site installation and commissioning

## INCOTERM

FOB Shanghai port

## PAYMENT TERMS

- 30% as advance payment

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- 30% at two months after PO placement
- 30% at delivery against shipping documents.
- 10% after Site Installation, no later than 3 months from delivery.

#### WARRANTY

12 months after site acceptance test or 18 months after delivery, which comes earlier, not include consumables and normal wear and tear.

#### VALIDITY

The price is valid for complete order only. It is valid for 30 days from the submitted date.

#### GENERAL TERMS AND CONDITIONS

All details shared as part of the Techno-Commercial Offer including the commercial and the technical proposal shall be kept in strictly confidential. Any of the Recipients or your team member shall not disclose these Confidential Information to any third party, except as specifically authorized by this Agreement or as specifically authorized by SYNCS in writing.

Yours faithfully,

**Warren Wang**

for and on behalf of  
**SYNCS Netherlands B.V.**

#### APPENDICES

1. SULMT15Q03S06\_OEMs Vendor List\_Rev A.pdf
2. SULMT15Q03S12\_PFD\_Rev C.pdf