

ANNEX No. 1
(For Contract No. 02/NT-PENTEK/2022)

TT	Item	Requirement	PENTEK
	DETAIL REQUIREMENT		
	Manufacturer: PENTEK TEXTILE MACHINERY SRL		
	Model: ENAIRGY XSTREAM	Europe (ITALY)	Italia
1	Product	Terry fabrics & towels	Terry fabrics & towels
2	Material	Cotton, cotton +Viscose, Bamboo, Microfiber	Cotton, Cotton+Viscose; Bamboo, Microfiber
3	Weight of materials min/max	95% capacity <800g/m2, 5% capacity >800g/m2 đến 1200g/m2	95% capacity <800g/m2, 5% capacity >800g/m2 đến 1200g/m2
4	Machine width	2,400 mm	2,6m
5	Working width	2,600 mm	2,4 m
6	Machine width	2,6 m	2,6 m
7	Fabric input device	Trolley	Trolley
8	Fabric output device	Trolley (with plaiter)	Trolley (with plaiter)
9	Moisture	3%	3%
10	heating media	Thermal oil	Thermal oil
11	Speed of machine when running/working with information as below: Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%, don't make the towel become yellow.	Machine speed m/p, temperature °C	15mt/p, temperature 150 °C
12	Capacity (Towel quantity) Protocol acceptance	15 tons/day (Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%, don't make the towel become yellow.	15 tons/day (Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%, don't make the towel become yellow.
13	Slit blow	mm	can not show because this is Pentek's knowhow
14	Thermal Power consumption (kwh)	693 kWh (16.632 kWh on 24h)	693 kWh (16.632 kWh on 24h)
15	Air consumption (L/min)	15 (4.500 NI/h)	15l/p
16	Air Pressure	base to air in factory 5kg/cm2	5 kg/cm2
17	Steam Pressure	Kcal/h	693Kw # 600,000 Kcal
18	Steam consumption (kg/h)	220/380V(+/-10%) , 3 phrase, 50 Hz	380 V (+/- 10%), 3 phases, 50 Hz
19	Electric	1.920 kwh (24h) - 80 kwh (1h)	160Kw
20	Electric consumption (kwh)	Inverter - SIEMENS - GERMANY (EU)	Brand: WEG Original: Germany
21	Bearing	SKF Germany	SKF Germany
22	Motors speed adjustment	Inverter - EU	Siemen. Germany.
23	Control System	Automatic-Digital	Automatic-Digital
24	Software in use and can be connect with computer by internet	Sedomax or other equivalent softwares	Siemen. Germany.
25	PLC	SIEMENS - GERMANY (EU)	Siemen. Germany.
26	Touch screen monitor.	Touch Green -EU, JP	Siemen. Germany.
27	Connect with computer	USB; RJ 45	USB; RJ 45
28	Database output on computer	CSV (Excel)	CSV (Excel)
29	Operation program	Up to 9999	9999
30	Storage of machine operation data	CPU / CF Card	yes

Detail requirement			
I	Heating system		
1	Heating power need	Kcal/h	693Kw # 600,000 Kcal
2	Heating power requires	Kcal/h	693Kw # 600,000 Kcal Nhiệt độ dầu 190-200°C
3	Maximum allowable working temperature for cotton so as not to yellow the towel.	Show	150°C
4	Maximum wind temperature	oC	180°C
5	Installed heat capacity	Kw	709,000Kcal
6	Heating unit	distance between each unit \geq 8mm	\geq 8mm
7	Thermal oil temperature	m ³ /h	39,850 l/h
II	Fabric input device		
1	Fabric input device	Trolley	Trolley
2	Centering parts (input)	yes	yes
3	Tension controller	yes	yes
III	Dry chamber		
1	Main drying chamber	quantity chamber	1
2	Exhaust fan	Inverter control	Motor WEG (Germany) Invertor control: SIEMENS
3	Blown fan	Inverter control	Motor WEG (Germany) Invertor control: SIEMENS
4	Automatic control of dehumidifying	Control fan speed automatic desiccant: temperature, machine speed, flow rate settings (Bianco Hygrotex SH-1)	have
5	Fabric weight control system	Loadcell setting and revise	Loadcell setting and revise
6	Reversing system	Adjusting the speed and changing the number of reversals.	Adjusting the speed and changing the number of reversals.
7	Dust Filter System	Automatically recovers dust and compresses cotton dust into the storage bag.No need clean by hand.	Automatically recovers dust and compresses cotton dust into the storage bag.No need clean by hand.
8	Do not block the heating unit	Effective filter dust system, does not block the heat generator	Effective filter dust system, does not block the heat generator
9	Fabric containment	m	100
10	Processing speed in the discharge chamber	>2000m/p	2000m/p
III	Fabric output device		
-	Centering parts (output)	Motorized optical centering device	yes
-	Output moisture control device	Automatically adjust speed according to the installation machine output moisture towel	Output humidity counter, Automatically adjust speed according to the installation machine output moisture towel. included in the price
-	Electrostatic discharge	Full electrostatic discharge when in operation	Full electrostatic discharge when in operation
OTHER REQUIREMENT			
1	Evaporation capacity		420kg/h ở 150°C
2	Measuring system, displaying temperature, pressure, moisture	420 kg/h at 150°C	420 kg/h at 150°C
3	The auxiliary pipe system is included with the machine	Please describe the auxiliary pipe system	
4	Technological layout	yes	yes
5	Specifications, electric power each engine	yes	75,30,55 kw
6	Avoid dew condensation drying chamber	Yes	yes
7	Electric control cabinet	Integrated in the machine's body	Integrated in the machine's body
8	Electric consumption	kwh/ton towels	80kwh
9	Steam consumption (kg/h)	steam tons/ towel tons	không
10	Weigh of machine	kg	14,000 kg
11	Total dimension (L*W*H)	following maker	14500x5272x3893
12	Color of machine	show	RAL 1012+1013
13	Brackets of machine (L-W)	14500 mm x 5272 mm x 3893 mm	14500 mm x 5272 mm x 3893 mm
I. Tài liệu đính kèm	Attached document		
1	Manual instruction book	English - 2 copies	yes
2	Electrical chat diagram	English - 2 copies	yes
3	Machine Features and controller	English - 2 copies	yes
4	Maintenance	English - 2 copies	yes
5	Troubleshooting	English - 2 copies	yes
6	Spare part	English - 2 copies	yes
7	Machanical and electric equipment catalouge	English - 2 copies	yes
8	Layout for Foundation and Erection	English - 2 copies	yes

ANNEX No. 2
(For Contract No. 02/NT-PENTEK/2022)

CÔNG TY CP DỆT GIA DỤNG PHONG PHÚ

DON VI: PX Nhuộm Q.9

PROTOCOL ACCEPTANCE CONDITIONS

TT	ITEM	REQUESTED	YÊU CẦU	Pentek
				Enairgy Xstream
1	Speed of machine when running/working with information as below:Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%.don't make the towel become yellow.	Speed m/p	Tốc độ m/p	15m/p
2	towel quantity (Protocol acceptance)	15 tons/day (Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%.don't make the towel become yellow.	Năng suất máy 15 tấn /ngày (theo sản phẩm chuẩn 100% cotton , trọng lượng 400g/m2; khổ 1.8m) độ ẩm trước sấy 70%, độ ẩm khăn ra 3%, đảm bảo không gây vàng khăn.	15 tons/day (Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%.don't make the towel become yellow.
3	Electric consumption(15 tons/day, Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%.don't make the towel become yellow.	Kwh	Kwh	80kw
4	Installed heat capacity(15 tons/day, Products 100% cotton, weight 400g/m2, width 1m8), moisture before drying 70%, after that 3%.don't make the towel become yellow.)	Kcal/h	Kcal/h	828kw- 709,000 Kcal/h
5	Thermal oil flow (max)	lt/h	lt/h	47,500lt/h (max)
6	Heating power need/ requires(Products 100% cotton, weight 400g/m2, width 1m8, moisture before drying 70%, after that 3%.don't make the towel become yellow.)	Kcal/h	Kcal/h	693kw - 600,000kcal/h(airflow heating from 30 - 150°C)
7	Thermal oil temperature (working machine)	Temperature	Nhiệt độ °C	190°-220°C
8	Consumtion thermal oil flow	m3/h	m3/h	39.850lt/h

CONDITIONS OF ACCEPTANCE BY towels type

Towel	Item	G/ M2	towel width (CM)	size (CM)	Gr/PC	BORDER	COLOR	Moisture (%) In	Moisture (%) OUT	SPEED (M/MINUTE) maker need to show	Temperature drying (°C)	Temperature thermal oil (°C)	Min. thermal oil flow (lt/h)	Q.ty (KG/24H)	OTHERS
MÔNG	FE-19	225	190	36.5*92.8	75	X	WHITE	55	3	21	150	190-200	39.850	13.000	don't make the towel become yellow
	FE-19	225	190	36.5*92.8	75	X	WHITE	70	3	20	150	190-200	39.850	12.300	
	FE-19	225	190	36.5*92.8	75	X	WHITE	80	3	19	150	190-200	39.850	11.700	
T.BÌNH	XR-93	425	158	73.5*148	468,7		WHITE	55	3	16	150	190-200	39.850	15.500	
	XR-93	425	158	73.5*148	468,7		WHITE	70	3	15	150	190-200	39.850	14.500	
	XR-93	425	158	73.5*148	468,7		WHITE	80	3	14	150	190-200	39.850	13.500	
DÀY	FJ-40	726	188	43.5*78	250		WHITE	60	3	9	150	190-200	39.850	17.600	
	FJ-40	726	188	43.5*78	250		WHITE	70	3	8	150	190-200	39.850	15.700	
	FJ-40	726	188	43.5*78	250		WHITE	80	3	7	150	190-200	39.850	13.800	

ANNEX No. 3
(For Contract No. 02/NT-PENTEK/2022)
INSTALLATION AND GUARANTEE TERMS

ARTICLE 1 : INSTALLATION

Obligations of The Seller:

- The Seller will provide Experts for installation-instruction of the equipment, carry-out the commissioning & start-up works & to train the operators of The Buyer at the factory-site about skills for machine operation, fine adjustment, set up data on PLC, troubleshoot, maintenance process. The contract price is including the above mentioned services.
- Besides, The seller is responsible for all costs of airfare, hotel, meals, transportation (from airport to hotel and vice versa), salary, allowance, training specialist
- Provide free and support technical installation, Guide to use software connect with center to manage and exploit data (export excel file)

Obligations of The Buyer:

- To prepare the job-site like civil works for floor, foundations, electricity cables, water pipe, compressed air pipe.
- To notify in written to The Seller **10 days** in advance about schedule to carry-out the installation works of the equipment, under the supervision of The Seller
- Arrange technicians during installation, commissioning and start-up period :
 - Electricians
 - Skilled Mechanics
 - Operators
 - Pipe filters
 - Welders
- Arrange facility for installation like cranes for lift on/lift off, handling tools, required fabrics.
- During preparation of the job-site for installation, commissioning and start-up of the equipment, The Buyer shall provide a competent representative, who will liaise with The Seller's experts to resolve any issues, queries and/or problems that may arise at the job-site.
- Buyers will serve lunch and shuttle specialists from the hotel to the company during the installation and training time.

ARTICLE 2 : GUARANTEE TERMS

- The Seller guarantees that all goods shall be brand new, of first-class workmanship and newly manufactured. It shall under normal conditions, be free from all defects, faulty design, materials and/or workmanship for a period of **24 months** from of Certificate of Acceptance & Handing Over.
- Guarantee main components and spare parts: mechanical parts, bearings, electric components, electronics, circuit boards, touch screens, piston-compressors are manufactured in Italy, Germany, Europe and Japan.
- During the warranty period, although The Buyer follows the operation /maintenance instructions of The Seller, the damages still happen and defective / damaged part (s) are discovered, The Seller shall arrange, to send technician to repair and/or send quickly parts for replacement at his costs on DDP basis but within max. 45 days after receipt of the notification in written of the Buyer.
- The warranty excludes normal wear and tear parts or damages, caused by wrong operation, maintenance by the Buyer, against the instruction of Maker's Expert or operation manual.
- Shortly before the Bank Guarantee for Warranty comes to and end, The Seller will delegate an experienced Technician of the Maker for 1 week to Phong Phu Home, for checking the machine, fine adjustments and changing parts, if necessary. Those parts, that will be changed and fall under the Guarantee, will be free of charge for Phong Phu Home.

ARTICLE 3 : OTHER TERMS

Inviting 02 people of Buyer to Italy or Europe to survey production line of Pentek or factory ... during a maximum of 07 daytime. All expenses for accommodation and travel in Italy (or Europe) will be paid by Pentek (the buyer inform Pentek in advance at least 01 month to arrange the plan).

This Annex is made in 04 Originals in English. Each party keeps 2 Originals with equal legal value.

**On behalf of
The Buyer**

**On behalf of
The Seller**

