



BINA EPC Contractor Co.
(Executor of Oil, Gas, Petrochemical & Power Industries)

Toase-ehe Park Sanati Gohar Ofogh Petrochemical Co.

**CONCEPTUAL, BASIC and DETAIL DESIGN
ENGINEERING OF STYRENE PARK OFFSITE**

Document Title: Process Flow Diagram

Document No. : EI0127-HRC-VD-PR-PFD-002-R0

ENBR
TEKNOLOJI



Rev.: R0

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STYRENE PARK OFFSITE

Document Title:

Process Flow Diagram

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R0	20/02/2024	Issued for Comment	M.Tavakoli	E.Malek	H.Keshmiri



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1	X						
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Tag numbers shall be according to project documents

All legend shall be introduced.

PK-0001-F1
 AIR CARBON FILTER
 OP. T. = 5/52 C
 OP. P. = 0.07 barg

PK-0001-F2
 AIR AFTER FILTER
 OP. T. = 5/52 C
 OP. P. = 0.04 barg

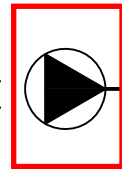
PK-0001
 AIR FILTER PACKAGE

PK-0001-F1

PK-0001-F2

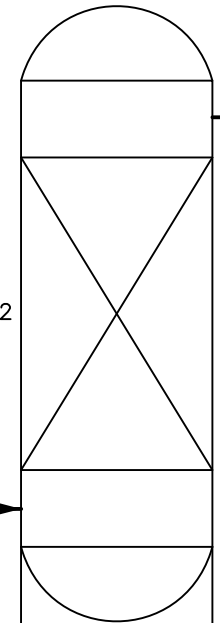
Shall be deleted

STYRENE TANK



101
Note1

Note2



102

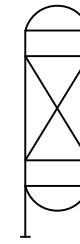


Equipment location shall be according to final PFD of the project.

STREAM NUMBER		101	102
Service		Air + Styrene	Air+Styrene
Vapor Frac.		1.0000	1.0000
Temperature	C	5/52	5/52
Pressure	barg	0.07	0.00
Normal Flow(Note1)	Nm3/hr	1080	1080
Density	kg/m3	1.107 / 1.295	1.107 / 1.295
Molecular Weight	kmol/kg	29.03	29.03
COMPOSITION	%wt		
Styrene		3.5 g/Nm3	<50 mg/Nm3
Air		balanced	balanced

REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :



Carbon Filter



Cartridge Filter

NOTES :

1. Feed stream is intermittent at loading time of upstream styrene storage tank.
2. Non-regenerable Carbon Active.

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
RO	20-Feb-24	Issued for Comment	M.T.	E.M.	H.K.	HRCO

CLIENT:  **پتروشیمی توسعه پارک صنعتی گوهر الماس**

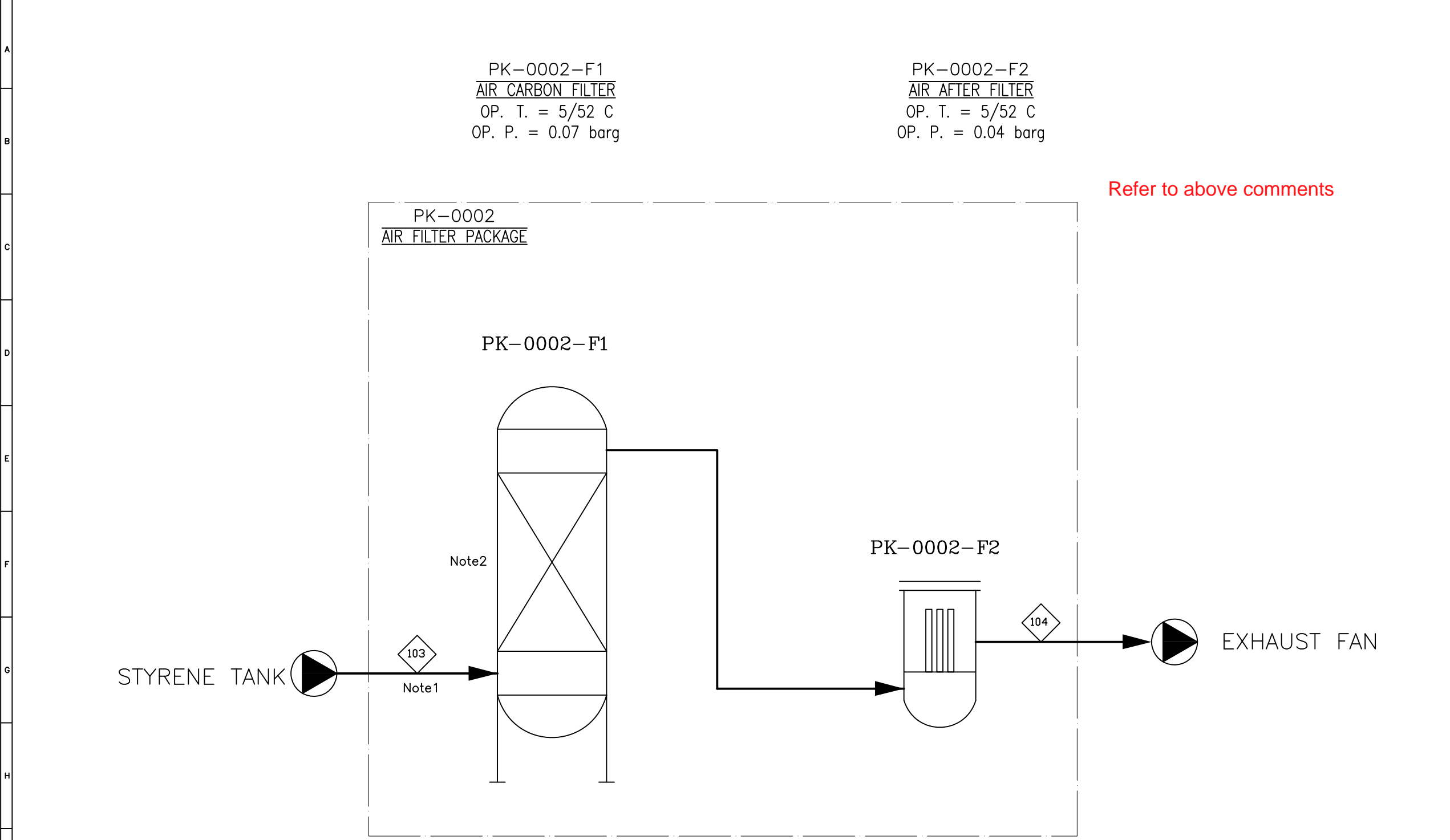
CONSULTING ENGINEER:  **BINA EPC CONTRACTOR CO.**

VENDOR:  **ENER TEKNOLOJI**  **HAMOON RAH**

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Process Flow Diagram**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI0127-HRC-VD-PR-PFD-002	RO	A3	NTS	3 of 4



STREAM NUMBER		103	104
Service		Air + Styrene	Air+Styrene
Vapor Frac.		1.0000	1.0000
Temperature	C	5/52	5/52
Pressure	barg	0.07	0.00
Normal Flow(Note1)	Nm3/hr	1080	1080
Density	kg/m3	1.107 / 1.295	1.107 / 1.295
Molecular Weight	kmol/kg	29.03	29.03
COMPOSITION	%wt		
Styrene		3.5 g/Nm3	<50 mg/Nm3
Air		balanced	balanced

REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :		
	Carbon Filter	
	Cartridge Filter	

NOTES :			
1.	Feed stream is intermittent at loading time of upstream styrene storage tank.		
2.	Non-regenerable Carbon Active.		

KEY PLAN :			

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CLIENT:

CONSULTING ENGINEER:

VENDOR:

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Process Flow Diagram**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
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