



 **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**

ENBR
TEKNOLOJI



Document Title: Process Flow Diagram

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

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



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Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6
1	X						
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Page	Revisions						
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Tag numbers shall be according to project documents

Operating pressure shall be revised based on the "Process Duty Specification for Activated Carbon Package"
 HRCO: Noted, All data will be revised according to duty spec and project PFD.

Tags outside of the package battery limit shall be in accordance with the project P&ID/PFD
 HRCO: Noted, All data will be revised according to duty spec and project PFD.

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

This value has discrepancy with the "Process Duty Specification for Activated Carbon Package"
 HRCO: Noted, All data will be revised according to duty spec and project PFD.

PK-0001
 AIR FILTER PACKAGE

PK-0001-F1

PK-0001-F2



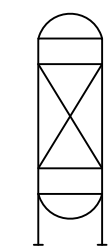
Shall be deleted

STYRENE TANK

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

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.

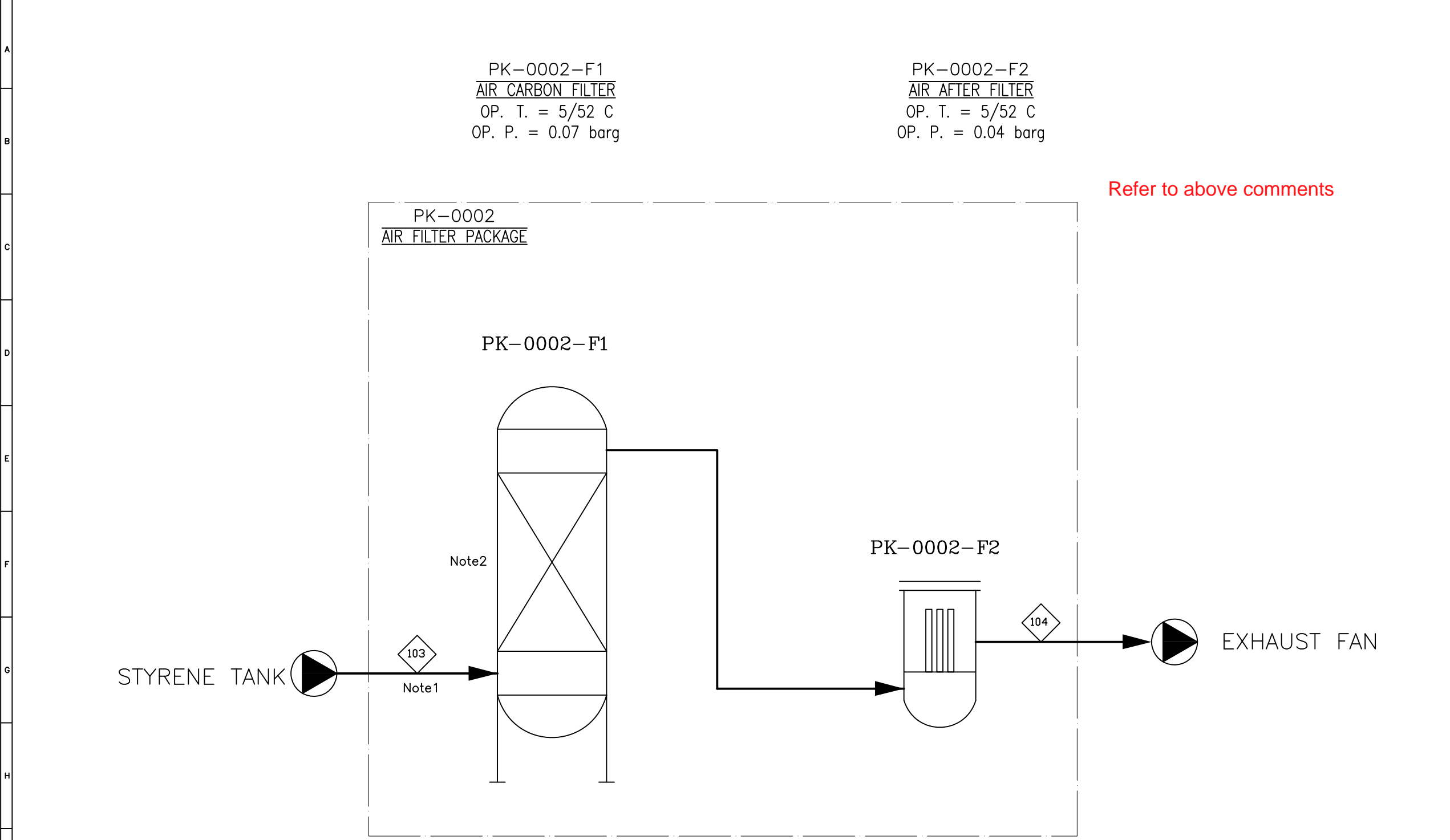
KEY PLAN :

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

These values has discrepancy with the "Process Duty Specification for Activated Carbon Package"
 HRCO: Noted, All data will be revised according to duty spec and project PFD.

BINA logo shall be removed in all pages
 HRCO:Noted

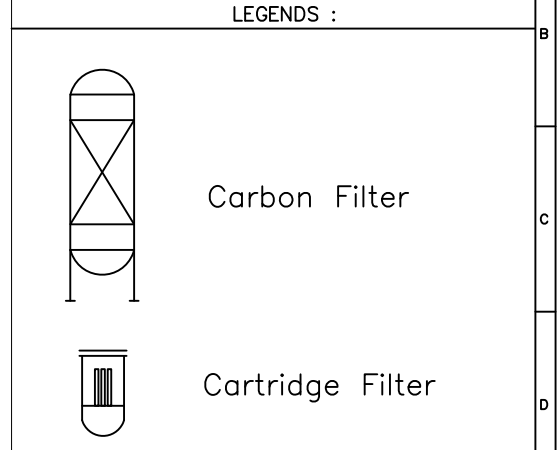
RO	20-Feb-24	Issued for Comment	M.T.	E.M.	H.K.	HRCO
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
CLIENT:			CONSULTING ENGINEER:			
						
VENDOR:			 			
PROJECT: STYRENE PARK OFFSITE						
DRAWING TITLE: Process Flow Diagram						
DRAWING NO.		REV.	SIZE	SCALE	SHEET	
E10127-HRC-VD-PR-PFD-002		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 :



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:

CONSULTING ENGINEER:

VENDOR:

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Process Flow Diagram**

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