





OWNER :
BOUALI SINA
PETROCHEMICAL
COMPANY (BSPC)
PROJ. NO. : BS /3-04

 PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO PROJ. NO :1171	 S A Z E H CONSULTANTS	THIRD AROMATICS PLANT	
		COVER SHEET	

DOCUMENT TITLE :

INSTRUMENT DATA SHEET

GAS CHROMATOGRAPHY
(UNIT 800)

DOCUMENT NO : **80-DSH-IN-613**

TOTAL PAGES : 3
(EXCLUDING COVER SHEET)

2	Jan. 16, 02	APPROVED FOR CONSTRUCTION	AFC	M.GH.	M.GH.	K.L.		
1	Apr. 3, 01	ISSUED FOR ENGINEERING	IFA	M.F.	F.A.D.	K.L.		
0	May. 4, 00	ISSUED FOR INQUIRY	IFI	T.M.	T.M.	K.L.		
REV.	DATE	DESCRIPTION	STATUS CODE	PREPARED	CHECKED	APPROVED	PROJECT	

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**BOUALI SINA PETROCHEMICAL
COMPANY (BSPC)
PROJ. NO. : BS /3-04**

**PETROCHEMICAL
INDUSTRIES DESIGN
ENGINEERING CO
PROJ. NO. : 1171**



GAS CHROMATOGRAPHY

DOC. NO. : 80-DSH-IN-613

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OWNER :
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COMPANY (BSPC)
PROJ. NO. : BS /3-04

- 3 -6	PETROCHEMICAL INDUSTRIES DESIGN ENGINEERING CO PROJ. NO. : 1171	 SAZEH CONSULTANTS	THIRD AROMATICS PLANT INSTRUMENT DATA SHEET GAS CHROMATOGRAPHY DOC. NO. : 80-DSH-IN-613 2	
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TAG NO. : AT 80005	See Note 1
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SERVICE: MEASUREMENT OF EB/MOX/PX/PDB AT DISCHARGE OF P 8003A/B			
SAMPLE TAKEN FROM: OUT LET P 8003A/B		SAMPLE RETURN TO: TO SLOP AROMATICS (UNIT 700)	
NO. OF STREAMS: ONE			
INSTALLATION: LOCAL <input type="checkbox"/>		SHELTER <input type="checkbox"/> ANALYZER ROOM <input checked="" type="checkbox"/> CABINET <input type="checkbox"/> (Analyzer House No UNIT 900)	
MEASURING PRINCIPLE: TCD/FID		P&ID NO.: 80-0-PR-0103	
PROCESS DATA:			
PRESS. @ SAMPLE POINT (BARA):	MIN.	NORM. 24.44	MAX.
PRESS. @ RETURN POINT (BARA):	MIN.	NORM. 1.4	MAX.
TEMP. (°C):	MIN.	NORM. 158	MAX.
DENSITY: KG/M³ 743	VISCOSITY: mPas 0.207		BOILING POINT: °C:
STATE OF AGGREGATION: LIQUID		CORROSIVE COMPONENTS: NONE	


ACCURACY : <2% RANGE		ZERO/END POINT STABILITY: <2% RANGE PER MONTH	
MEASURING RANGE: SEE TABLE BELLOW		OPERATING:	
AREA CLASSIFICATION: ZONE 2, IIC, T3		WETTED PARTS MATERIAL: 316 SS	
HOUSING PROTECTION: IP 65		LOCAL READ OUT:	
AUTO. TEMP. COMPENSATION: YES		OUTPUT SIGNAL: GC NETWORK WITH MODBUS LINK TO DCS	
AUTO. ZERO/SPAN ADJ.: YES		TRANSMITTER: 4-20 mA SMART <input type="checkbox"/> FOUND. FIELD BUS <input type="checkbox"/>	
CABLE ENTRY: M20X1.5 <input checked="" type="checkbox"/> ½" NPTF <input type="checkbox"/>			
POWER SUPPLY: 24 VDC <input type="checkbox"/> 110 VAC 50HZ <input checked="" type="checkbox"/>			
POWER CONSUMPTION VTA		UTILITY REQUIREMENT:	
SCOPE OF SUPPLY & MODEL NO.: •			
SENSOR\TRANSMITTER <input checked="" type="checkbox"/>	PURGING SYSTEM <input checked="" type="checkbox"/>	SAMPLE PRECONDITIONING <input checked="" type="checkbox"/>	SAMPLE PROBE <input checked="" type="checkbox"/>
TEST & CALIBRATION MEDIUM <input checked="" type="checkbox"/>	ANA. HOUSE <input checked="" type="checkbox"/>	CABLE TO CONTROL ROOM <input type="checkbox"/>	AIR CONDITIONING UNIT <input checked="" type="checkbox"/>

SAMPLE COMPOSITION .			MEASUREMENT	UNIT	NOTES: VTA : VENDOR TO ADVISE • : MANUFACTURER / MODEL NO.: FISHER ROSEMOUNT / GCX
1	EB	13.14	0-15	MOL%	
2	PX	0.97	0-5	MOL%	
3	MX	56.06	0-60	MOL%	
4	OX	25.5	0-30	MOL%	
5	C8 NORMAL	0.58		MOL%	
6	C8 NAPHTANE	3.33		MOL%	
7	C9 NONAROMATICS	0.04		MOL%	
8	C9 AROMATICS	0.05		MOL%	
9	C7 NAPHTANE	0.3		MOL%	
10	C7 NORMAL	0.03		MOL%	

NOTE :
1- DISTANCE FROM SAMPLE POINT IN FIELD TO ANALYZER HOUSE IS EQUAL WITH 35 METERS.



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<p>- 4 -6</p> <p>PETROCHEMICAL INDUSTRIES DESIGN ENGINEERING CO PROJ. NO. : 1171</p>	 <p>SAZEH CONSULTANTS</p>	<p>THIRD AROMATICS PLANT INSTRUMENT DATA SHEET GAS CHROMATOGRAPHY DOC. NO. : 80-DSH-IN-613</p> <p>2</p>	



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- 5-6	PETROCHEMICAL INDUSTRIES DESIGN ENGINEERING CO PROJ. NO. : 1171	 SAZEH CONSULTANTS	THIRD AROMATICS PLANT INSTRUMENT DATA SHEET GAS CHROMATOGRAPHY DOC. NO. : 80-DSH-IN-613 2	
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TAG NO. : AT 80022	See Note 1
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SERVICE: RECYCLE GAS FROM C-8001			
SAMPLE TAKEN FROM: TOP C-8001		SAMPLE RETURN TO: TO LOW PRESSURE FLARE	
NO. OF STREAMS: ONE			
INSTALLATION: LOCAL <input type="checkbox"/>		SHELTER <input type="checkbox"/>	
		ANALYZER ROOM <input checked="" type="checkbox"/> CABINET <input type="checkbox"/> (Analyzer House No UNIT 900)	
MEASURING PRINCIPLE: TCD		P&ID NO.: 80-0-PR-0114	
PROCESS DATA:			
PRESS. @ SAMPLE POINT (BARA):	MIN.	NORM. 12.4	MAX. 17.4
PRESS. @ RETURN POINT (BARA):	MIN.	NORM. 1.5	MAX.
TEMP. (°C):	MIN.	NORM. 63	MAX. 65
DENSITY: KG/M³ 2.259	VISCOSITY: mPas 0.01		BOILING POINT: °C:
STATE OF AGGREGATION: GASEOUS		CORROSIVE COMPONENTS: NONE	

ACCURACY : <2% RANGE		ZERO/END POINT STABILITY: <2% RANGE PER MONTH	
MEASURING RANGE: SEE TABLE BELLOW		OPERATING:	
AREA CLASSIFICATION: ZONE 2, IIC, T3		WETTED PARTS MATERIAL: 316 SS	
HOUSING PROTECTION: IP 65		LOCAL READ OUT:	
AUTO. TEMP. COMPENSATION: YES		OUTPUT SIGNAL: GC NETWORK WITH MODBUS LINK TO DCS	
AUTO. ZERO/SPAN ADJ.: YES		TRANSMITTER: 4-20 mA SMART <input type="checkbox"/> FOUND. FIELD BUS <input type="checkbox"/>	
CABLE ENTRY: M20X1.5 <input checked="" type="checkbox"/> 1/2" NPTF <input type="checkbox"/>			
POWER SUPPLY: 24 VDC <input type="checkbox"/> 110 VAC 50HZ <input checked="" type="checkbox"/>			
POWER CONSUMPTION VTA		UTILITY REQUIREMENT:	
SCOPE OF SUPPLY & MODEL NO.: •			
SENSOR/TRANSMITTER <input checked="" type="checkbox"/>	PURGING SYSTEM <input checked="" type="checkbox"/>	SAMPLE PRECONDITIONING <input checked="" type="checkbox"/>	SAMPLE PROBE <input checked="" type="checkbox"/>
TEST & CALIBRATION MEDIUM <input checked="" type="checkbox"/>	ANA. HOUSE <input checked="" type="checkbox"/>	CABLE TO CONTROL ROOM <input type="checkbox"/>	AIR CONDITIONING UNIT <input checked="" type="checkbox"/>

SAMPLE COMPOSITION .			MEASUREMENT	UNIT	NOTES: VTA : VENDOR TO ADVISE • : MANUFACTURER / MODEL NO.: FISHER ROSEMOUNT / GCX
1	H2	85	70-90	MOL%	
2	C1	11.7	0-15	MOL%	
3	C2	1.6	0-5	MOL%	
4	C3	1.0	0-2	MOL%	
5	C4	0.3	0-2	MOL%	
6	C5+	0.4	0-2	MOL%	
7					
8					
9					

NOTE :
1- DISTANCE FROM SAMPLE POINT IN FIELD TO ANALYZER HOUSE IS EQUAL WITH 125 METERS.