

OIL & GAS DEVELOPMENT COMPANY LIMITED PROTEMENT DEPARTMENT (LOCAL), IS MABAD SCHEDULE OF REQUIREMENT

Material: PCV FOR ACID GAS INCINERATION PACKAGE AMINE

Due Date:

MODIFICATON

Bid Bond Value: 100000

Tender Enquiry No: PROC-PROJ/17892/19

Attachment(if any): YES

EVALUATION WILL BE CARRIED OUT ON FULL

Sr No Description	Quantity	Make/Brand offered	Unit	Unit Price (PKR) Inclusive Of All Taxes Except GST	Unit Price (PKR) Inclusive of GST	Total Price (PKR) Inclusive of GST	Delivery Period Offered	deviation from Tender Spec. If Any
Pressure Control Valve as per Specifications attached	2		Number					

Special Note: The prospective bidders also download the master set of Tender Document

- The prospective bidders may keep in touch with OGDCL web site for downloading the clarifications/amendments (if any) issued by OGDCL - BID VALIDITY: 120 DAYS ÁFTER TECHNICAL BID OPENING DELIVERY LOCATION: KUNNAR PLANT, DELIVERY PERIOD: 5 MONT

AFTER ISSUANCE OF LPO, PAYMENT TERM: 90% AFTER DELIVERY & 10% AFTER INSTALLATION

Discount (if any) shall only be entertained on Schedule of Requirement of Bidding Document (Financial Proposal). If the discount is mentioned elsewhere in the bid, the same shall not be entertained.



PROCUREMENT DEPARTMENT (LOC .), ISLAMABAD SCHEDULE OF REQUIREMENT

2/12

For the Vendors/Contractors who opt to submit Bank Draft/Call Deposit/Pay order against Bid Bond/Performance Bond, our Accounts Department has finalized an arrangement for online payment to such Vendors/Contractors, which will be processed through (IBFT & LFT) for which following information is required:

i	IBAN No. (International Bank Account Number 24 Digits)	
	Vendor Name as per Title of their Bank Account	
	Contact No.of Company's CEO/ Owner (Mobile & Landline)	
	Bank Name.	
٧.	Bank Branch Name and Code	

Name, Sign and Stamp of the authorized official of the Bidder(s)



OIL & GAS DEVELOPMENT COMPANY LIMITED 'ROCUREMENT DEPARTMENT (LOC/), ISLAMABAD SCHEDULE OF REQUIREMENT

Mandatory Checklist

Please confirm the compliance of the following mandatory information along with the bid(s) (failing which bids(s) will not be accepted)

Documents Documents	To be Attached with the Technical/Financial Bids	Compliance					
Original Bid Bond	Technical Bid	Yes	No				
Copy of NTN Certificate	Technical Bid	Yes	No 🗍				
Copy of GST Certificate	Technical Bid	Yes	No [
Confirmation that the Firm is appearing on FBR's Active Taxpayer List	Technical Bid	Yes					
Duly signed and stamped Annexure-A (Un-priced)	Technical Bid	Yes	No No				
Duly filled, signed and stamped Annexure-B	Technical Bid	Yes	No No				
Ouly filled, signed and stamped Annexure-D	Technical Bid	Yes	No [_]				
ouly filled, signed and stamped Annexure-L on Company's etterhead	Technical Bid	Yes [_]	No [_j				
ouly signed and stamped Annexure-M on Company's Letterhead	Technical Bid	Yes	No 🗍				
uly signed and stamped Annexure-N on Non-Judicial Stamp aper duly attested by Notary Public	Technical Bid	Yes	No []				
uly filled, signed and stamped Annexure-A (Priced)	Financial Bid	Yes	No []				
uly filled, signed and stamped Annexure-C	Financial Bid	Yes	No [
uly filled, signed and stamped Annexure-E	Financial Bid	Yes	No				

OIL & GAS DEVELOPMENT COMPANY LTD.

BILL OF QUANTITIES FOR PRESSURE CONTROL VALVE

				SUP	PPLY	
ITEM	MATERIAL DESIGNATION	QTY.	UNIT		Total Price Ex-Project Site (In Local Currrency i.e. Pak. Rs.)	
1.0	INSTRUMENTS					
	SUPPLY (FACTORY CALIBRATED AND TESTED) FOLLOWING INSTRUMENT(S) AS PER INSTRUMENT DATA SHEET(S) COMPLETE IN ALL RESPECTS. THE PRICES QUOTED SHALL BE INCLUSIVE OF SUPPLY OF ALL REQUIRED MOUNTING AND INSTALLATION ACCESSORIES SUCH AS MOUNTING STANDS / SUPPORTS, STANCHION, CLAMPS, NUTS, BOLTS, BASE ETC.					
1.1	INSTRUMENTS					
a)	CONTROL VALVES WITH I/P POSITIONER	2	NO(S).			165-11-DSI-003, Rev. C 165-11-DSI-004, Rev. A A44-01-PRO-DWG-03 P&IDs, Rev.D A54-01-PRO-DWG-03 P&IDs, Rev.D
	TOTAL PRICE					

NOTES:-

1 TEST CERTIFICATES AND MTC'S OF ALL ITEMS (WHERE APPLICABLE) SHALL BE PROVIDED INCLUDING OPERATING & MAINTENANCE MANUALS.

2 THE CHARGES SHALL BE SUPPORTED BY VERIFIED QUOTATION OF INSPECTION AGENCY.



Zishan Engineers (Pvt.) Ltd.

An ISO 9001-2015 certified company,

47/F, Block 6, PECHS, Karachi-Pakistan Tel: (92-21) 34393045-48 & 34310151-54 Fax: (92-21) 34533430 & 34310156 E-mail: contact@zishanengineers.com,

Web: www.zishanengineers.com

Document No.	165-11-DSI-003
Revision	С
Date	02-01-2020
Total Pages (inc front cover)	3



OIL & GAS DEVELOPMENT COMPANY LTD.

ACID GAS INCINERATOR PACKAGE FOR PC CONTRACTOR AT KPD-TAY GAS PROCESSING FACILITY

DATA SHEET FOR CONTROL VALVE FOR AMINE TRAIN - 1



С	02-01-2020	Issued for Approval	AK	NAK	MM
В	01-01-2020	Issued for Approval	AK	NAK	MM
Α	18-07-2019	Issued for Review	AK	NAK	MM
Rev.	Date	Description	Prepared By	Checked By	Approved By

ons	ultan	t								Data	a Sheet		
	A								DATA	SHEET FO	R CONTRO	L VALVE	
T	31-	ZISHAN ENG	NEERS (PVT.)	LTD.			Docu	ment	No.		Rev	vision	Date
lien	t						165-1	1-DSI-	003			С	02-01-2020
ELOPI	MENT COM					Prepared	Ву		Check	ed By	Appro	oved By	Sheet
6	6	OIL & GAS DEVELO	PMENT COMP	ANY LTD.		AK			NA	١K	N	им	2 OF 3
1		Tag No.	Qty.		PV-4411 B							1	
2		Service	P&ID		ł	ige pressure control (P	rocess No	te-1)				A44-01-PRO-DWO	G-03-09
3		Fluid & State			Acid Gas & Gas Units	Max Flow		Nor. F	low	М	in. Flow	Shut-off	1
5		Flow Rate Gas	11.41		10.3			5.18	TSO				
6		Flow Rate Liquid			bpd			-			-		
7	SN	Inlet Pressure			psig				12 to 9.5				
8 9	ITIO	Outlet Pressure Inlet Temperature (Max)			psig °F				2.8				
0	COND	Density (opr.) lb.	ft ³ Viscosity	cP				0.	.16/ 0.0162				
11	SERVICE CONDITIONS	MW	Sp. Heat Ratio						-				
2	SER	Vap. Press. Pv	Compressibility		bara				1.67				
3		Crit. Press. Calculated Cv	Crit. Temp.		bara / deg C	1072.362		972.7	-/-		42.472		
15		Selected Cv			-	1072,302		7,2.1	. •		***=		
16		% Travel			-								
7		Predicted SPL			dBA	≤85		≤85			≤85		
18		Area Classification							class	1, division-1, G	roup C&D		
20		Line Number		12"-44-WI	F-253-A6			61	Туре			Penmatic Diaphrag	gm
21		Line Size & Sch.	In	12" SCH				62	Mfr. & Me	odel No.		VTA	•
22	LINE	Line Size & Sch.	Out	12" SCH	10S			63	Size			VTA	
23		Pipe Line Insulation		No	am a nu nag am		_	64		Modulating		Modulating	
24 25		Pipe material Type		Butterfly	STAINLESS ST	EEL	TOR	65	Spring Ac	ng (MAWP)		Direct VTA	
26		Size		10inch			ACTUATOR	67	Min. Req'				
27		Max Press. / Temp.		50psig / 13	30 deg °F		J	68	Bench Rai	Range		VTA	
28		Mfr. & Model No.		VTA				69		Orientation		Vertical Up	
29 30	VET	Body Material Bonnet Material		A351 Gr. 0			-	70	Handwhee Air Failur			N/A Fail open	
31	AND BONNET	Liner Material		N/A	0.1 5.1.1		1	72	Colour	e i osmon		VTA	
32		End Connection		ANSI 150	#, Flanged			73	Туре			Smart Electro-Pneu	imatic positioner
33	VALVE BODY	Flange Face Finish		RF				74	Input		Output	4 - 20 mA.DC	VTS (Process Not
34 35	LVEI	End Exten. Material Flow Direction		A351 Gr. 0 N/A	CF3M		_ ا	75 76	Direct or I Air Supply		Min.	Direct 58psig	
36	VA	Bonnet Type		N/A			ONE	77	Pressure	,	Max.	145psig	
37		Lube & Iso Valve		N/A			POSITIONER	78	Gauges		!	Req'd	
38		Packing Material		Double PT			_ ~	79		Cable Entry		M20×1.5(F)	
39 40		Packing Type Colour		Double Gla	and		\dashv	80	Split Rang Mfr. & Me			YES	
11		Туре		Butterfly			1	82	Certificati			EEx 'ia' IIBT4	
12		Size		VTA				83	Type & Re	eset		N/A	
13		Rated Travel		VTA			_ ا	84		rim Material		N/A	
14 15		Characteristics Balanced or Unba		Eq % N/A.			SOLENOID	85 86	Mfr. & Me			N/A N/A	
16	M	Rated Cv		VTA			SOLE	87	Supply fal			N/A N/A	
17	TRIM	Plug / Ball / Disk Material		A351 Gr. 0	CF3M]	88	Cable Ent			N/A	N/A
18		Seat Material			de UNS S31600		4	89		Certification	IP Rating	N/A	
19 50		Cage / Guide Material Stem Material		N/A S20910			-	90	Material Filter		Drain	Aluminium alloy	Pagid
51		Leakage Class		_	s per ANSI		S	92	Range		Conn.	Req'd 0-60 psig (VTC)	Req'd 1/4" NPTF
2							ACCESSORIES	93	Gauge			Req'd	
53		Hydro Test		-	Max. Pressure		CCES	94	Mfr. & Me	odel No.		VTA	·
54	TESTS	Leakage Test			ISI / FCI 70.02		→	95	Q'ty	minal -i		VTA	
55 56	T	Other Tests NACE Requirements		N/A YES (MR-	0175)		\dashv	96 97		minal size		VTA 316SS	
57	PROCE	ESS NOTES		(1	1				1	
58		This valve is to be added to an e for further understanding.	xisting control loop PI	Γ-4411 / PV-4411	I such that to mod	ify the existing loop to	split cont	rol loop	with the ado	dition of this new	control valve (PV	-4411 B). Also refer P&	kID A44-01-PRO-DWG-
		andersamming.		requirements.									

Consultant		Data Sheet							
	ZISHAN ENGINEERS (PVT.) LTD.		DATA SHEET FOI	R CONTROL VALVE					
TEL	ZIONAN ENGINEERO (FVI.) LID.	Docur	ment No.	Revision	Date				
Client	Client		-DSI-003	С	02-01-2020				
ELIP MENT COM	OIL & GAS DEVELOPMENT COMPANY LTD.	Prepared By	Checked By	Approved By	Sheet				
NO GAINE	OIL & GAS DEVELORIMENT COMPANY LID.	AK	NAK	ММ	3 OF 3				

NOTES:

- 1 VTA MEANS "VENDOR TO ADVISE"
- 2 CONTROL VALVE SHALL BE PROVIDED AS COMPLETE ASSEMBLIES, WITH INTEGRAL I/P POSITIONER AND ACTUATOR.
- 3 THE DIRECTION OF FLOW SHALL BE CLEARLY MARKED ON THE VALVE BODY.
- 4 EACH VALVE SHALL BE PROVIDED WITH TAG ATTACHED TO THE INSTRUMENT.
- 5 CONTROL VALVE SIZING CALCULATIONS WILL BE IN ACCORDANCE WITH EITHER ISA S75.01OR IEC 60534
- NOISE REDUCING TRIMS WILL BE USED TO ENSURE THAT CONTROL VALVE NOISE LEVELS DO NOT EXCEED 85 DB (A) AT 1 METER FROM THE VALVE DURING NORMAL OPERATION OR EXCEED 110 DB (A) AT 1 METER FROM THE VALVE DURING
- ABNORMAL OPERATION (E.G. FLARING OR BLOWDOWN).
- THE VALVE CV WILL BE KEPT BASED ON WORST CASE FLOW CONDITIONS (80% VALVE OPENING AT MAXIMUM CONDITIONS).
- 8 IP 56 SHALL BE PROVIDED AS MINIMUM FOR ALL CONTROL VALVES.
- 9 NACE MR-0175 shall be considered for materails

10 GAS COMPOSITION:

Component	Mole Fractions					
H2O	0.0236					
CO2	0.9727					
H2S	0.0012					
Methane	0.0012					
Ethane	0.0002					
Propane	0.0001					
n-Butane	0.0000					
n-Pentane	0.0010					



Zishan Engineers (Pvt.) Ltd.

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Web: www.zishanengineers.com

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Date	02-01-2020
Total Pages (inc front cover)	3



OIL & GAS DEVELOPMENT COMPANY LTD.

ACID GAS INCINERATOR PACKAGE FOR PC CONTRACTOR AT KPD-TAY GAS PROCESSING FACILITY

DATA SHEET FOR CONTROL VALVE FOR AMINE TRAIN - 2



Α	02-01-2022	Issued for Approval	AK	NAK	MM
Rev.	Date	Description	Prepared By	Checked By	Approved By

Prepared By	onsul	ltan	t								Data	a Sheet		
		\								CONTR	ROL VALVE	FOR AMINE	TRAIN - 2	
Cl. S. GAS DEVELOPMENT COMPANY LTD.	個		ZISHAN ENGI	NEERS (PVT.) L	LTD.			Docu	ment l	No.		Rev	rision	Date
AK	lient							165-1	1-DSI-	004			A	02-01-2020
A	ELOP MEN	T COR					Prepared	Ву		Check	ed By	Appro	oved By	Sheet
March Marc	6	O PE	OIL & GAS DEVELO	PMENT COMP.	ANY LTD.		AK			N.A	١K	N	им	2 OF 3
March & Solor	1	13-	Tag No.	Qty.		PV-5411 B							1	
March Marc	_		Service	P&ID		V-5406 Split rar	nge pressure control (P	rocess No	te-1)				A54-01-PRO-DWO	G-03-09
Note	-	-	Fluid & State			ļ		1	Non El	l		in Flore	Short off	
Part	_	ŀ	Flow Rate Gas		+			IVI						
Page	6	-				bpd	-		-			-		
1														
Text Peace Can Peace C	8 6	OI I												
1				t ³ Viscosity	cP	г			0.					
1	1 2	CE		-	-					-				
1	2 2	SEK		-			-							
Section C	13	ļ		Crit. Temp.			1070 252		072.5		<u> </u>	42 472		
No.	_	H					1072.362		9/2.70	υδ	L 4	42.472	+	
Control Cont	-	-												
	17		Predicted SPL			dBA	≤85		≤85	i		≤85		
10		ļ	Area Classification			_				class	1, division-1, G	roup C&D		
	-		Lina Number		12" 54 W	E 252 A6			61	Turno			Ponmetic Dienbree	m
The Size & Sch. Out 12" SCH 168 Pipe Line Insulation No	_	ŀ		In	-			-			odel No.		-	ш
Pipe Line Insulation No Pipe Internal Insulation No No Pipe Internal Insulation No No Pipe Insulation No No Pipe Insulation No No Pipe Insulation No Pipe Insulation No Pipe Insulation No Pipe Insulation No No Pipe Insulation Pipe Insulation No Pipe Insulation Pipe Insu		CINE	Line Size & Sch.						63				+	
Type			Pipe Line Insulation		No				64	On-Off or	Modulating		Modulating	
Max. Press. / Temp.					-	STAINLESS ST	EEL	ğ		_			+	
Max. Press. / Temp.	_	H			_			TUAT			eq'd Pressure			
Bady Material	_	-				30 deg T		AC.						
Bonnet Material	28		Mfr. & Model No.		VTA				69	Actuator (Vertical Up	
Finge Face Finish	29	E1.			_									
Pange Face Finish	30	N O			-	CF3M		_			e Position		-	
Finge Face Finish	32					#, Flanged		+	-					ımatic positioner
Bonnet Type			Flange Face Finish		RF							Output		VTS (Process No
Bonnet Type	34	VE BC	End Exten. Material		A351 Gr.	CF3M			75	Direct or I	Reverse	1	Direct	
Packing Type	35	VAL			_			NER			у		-	
Packing Type	_	ŀ			-							Max.		
Colour VTA Size Size VTA Size VTA Size	_	H				FE#1		POS			ry			
Type	39		Packing Type		Double Gl	and			80	Split Rang	ge		YES	
Size								4		1				
Rated Travel	_	H			_			-	-				+	
Characteristics Eq. % N/A Stem Material Scat Materia	_	H			_			1						
Flug Ball Disk Material A351 Gr. CF3M Seat Material A479 Grade UNS S31600 Seat Material A479 Grade UNS S31600 Seat Material N/A N/A Seat Material N/A	44	Į	Characteristics		Eq %			OID	85	Mfr. & M	odel No.		N/A	
Flug / Ball / Disk Material	_	-			-			LEN						
Seat Material A479 Grade UNS \$31600 89 Electrical Certification IP Rating N/A	_ =	₹ F				CE3M		SC		1				NI/A
Cage / Guide Material N/A Stem Material S20910 91 Filter Drain Req'd Req'd	_	-						-				IP Rating	+	IV/A
Leakage Class Leakage Class Class IV as per ANSI Fig. September 2012 Leakage Class Leakage Class Class IV as per ANSI September 2013 September 2014 Septem		H			_			1	-				+	
Fig.	-	H		<u> </u>	_								_	
Other Tests N/A 96 Tubing nominal size VTA NACE Requirements YES (MR-0175) 97 Tubing and fitting matl 316SS	-	ļ	Leakage Class		Class IV a	s per ANSI		RIES				Conn.		1/4" NPTF
Other Tests N/A 96 Tubing nominal size VTA NACE Requirements YES (MR-0175) 97 Tubing and fitting matl 316SS		-	Hvdro Test		1.5 times 1	Max. Pressure		ESSO			odel No			
NACE Requirements YES (MR-0175) 97 Tubing and fitting matl 316SS		- 1			-			ACC						
	55	ES			_						minal size			
77 PROCESS NOTES	_				YES (MR-	0175)			97	Tubing an	d fitting matl		316SS	
This valve is to be added to an existing control loop PT-5411 / PV-5411 such that to modify the existing loop to split control loop with the addition of this new control valve (PV-5411 B). Also refer P&ID A54-01-PRO-D		_		isting control loop PT	-5411 / PV-541	I such that to mod	ify the existing loop to	split cont	rol loon	with the ad-	lition of this new	control valve (PV	-5411 B). Also refer P.s	ZID A54-01-PRO-DWG

Consultant		Data Sheet			
751	ZISHAN ENGINEERS (PVT.) LTD.	CONTROL VALVE FOR AMINE TRAIN - 2			
		Document No.		Revision	Date
Client		165-11-DSI-004		Α	02-01-2020
OIL & GAS DEVELOPMENT COMPANY LTD.		Prepared By	Checked By	Approved By	Sheet
SE ON BETTER	SIE & GAS DEVELOF WIENT COMPANT ETD.	AK	NAK	MM	3 OF 3

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n-Pentane	0.0010	



