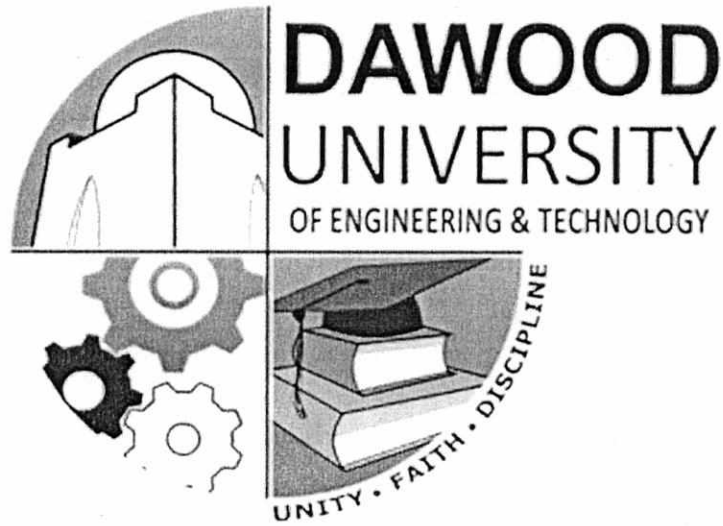




DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET)
NEW M.A. JINNAH ROAD, KARACHI-74800 (PAKISTAN)
PHONE: 021-99231195-98, 99230307 FAX: 021-99230710



BID (TECHNICAL & FINANCIAL) EVALUATION REPORT

PROCUREMENT OF LABORATORY EQUIPMENT FOR THE DEPARTMENT OF CHEMICAL ENGINEERING, DUET,
KARACHI

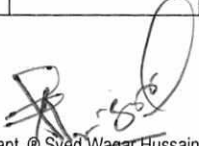
- ✓ SPPRA Serial No: 33676
- ✓ Copies of Publication of NIT
- ✓ Date of Opening of Technical Envelopes: 16-06-2017
- ✓ Date of Opening of Financial Envelopes: 15-08-2017
- ✓ Notification of Procurement Committee
- ✓ Minutes of the Meeting of Technical Opening
- ✓ Technical Evaluation Sheet
- ✓ Minutes of the Meeting of Financial Opening
- ✓ Bid Evaluation Report (BER)
- ✓ Comparative Statement
- ✓ Attendance Sheet

BID EVALUATION REPORT


1. Name of Procuring Agency: Dawood University of Engineering & Technology, Karachi
 2. Tender Reference: DUET/DF/PO/CHE/LABEQP/2016-17
 3. Tender Description: Procurement of Lab Equipment's for the Department of Chemical Engineering.
 4. Method of Procurement: Single Stage- Two Envelope (SPP rules 46(2))
 5. Tender Published: The News/English, Daily Jang/Urdu, Daily Dunya/Urdu, Daily Awami Awaz/Sindhi Newspapers in the respective language of newspapers with Tender Reference No: PID(K)#4556/16 on 02-06-2017 and hoisted on SPPRA website at Sr. No. 33676 & DUET own website i.e. ww.duet.edu.pk,
 6. Total Bid documents Sold; 06 (Six)
 7. Total Bids Received: 06 (SIX)
 8. Technical Bid Opening date: (if applicable) 16-06-2017
 9. No. of Bid technically qualified (if applicable): 06 (Six)
 10. Bid(s) Rejected: 02 (Two)
 11. Financial Bid Opening date: 15-08-2017
 12. Bid Evaluation Report:


S No	Name of Firm or Bidder	Cost offered by the Bidder (C&F)	Total Cost In PKR	Ranking in terms of cost	Comparison with Estimated cost	Reasons for acceptance/rejection	Remarks
0	I	II	III	IV	V	VI	VII
01	M/S RASTEK TECHNOLOGIES	€ 100,384	12,548,000	3 rd	Open rate	Rejected/ Highest Rates	
02	M/S RIZVI & CO	€ 65,926	7,961,883	2 nd	Open rate	Rejected/ High Rates	
		€ 134,997	16,303,588	N/A	Open rate	Technically Qualified/ Substantially responsive	PC recommends for AOC in term of rule 48 for Thermodynamic Lab Eqp as per BOQ-04
03	M/S PAKTECH INSTRUMENTS	€ 55,782	6,736,792	1 st	Open rate	Technically Qualified / Substantially responsive	PC recommends for AOC for Fluid Mechanics Lab Eqp as per BOQ-02
04	M/S TECHNORADE	-	998,000	N/A	03449346/ 13.06.2017	Technically Qualified/ Substantially Responsive	PC recommends for AOC in terms of rule 48 for Computer Simulation and Modeling Lab as per BOQ-01


M. Asif Mughal
Procurement Officer
DUET, Karachi
Member/Secretary


Capt. © Syed Waqar Hussain
Acting Registrar/Project Director
Strengthening of DUET Project
Co-Opted Member


S. M. Shabbir
Director Finance
DUET, Karachi
Co-opted Member


Prof. Dr. Abdul Waheed Bhutto
DEAN (FoE),
DUET, Karachi
Co-Opted Member


Mr. Ashfaq Issani
Asst/Professor
(Ex-Director P&D)
MUET, Jamshoro

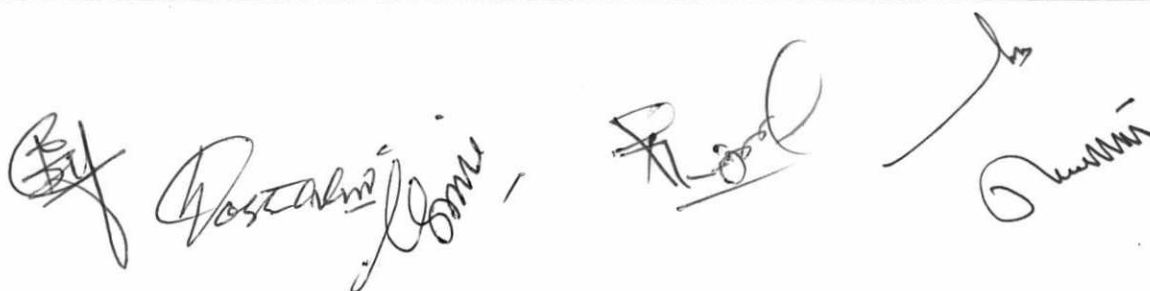

Prof. Dr. Dost Ali Khawaja
Academic Coordinator
DUET, Karachi
Convener

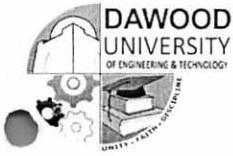
MINUTES OF THE MEETING

OPENING OF TECHNICAL PROPOSALS FOR PROCUREMENT OF LABORATORY EQUIPMENTS FOR THE DEPARTMENT OF CHEMICAL ENGINEERING, DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET), KARACHI (SPPRA SR. NO. 33676)

- Meeting of the Procurement Committee of this Department held on 16-06-2017 (12:30 pm) at the Seminar Hall of DUET in order to open the Technical Proposals of the bid "Procurement of Laboratory Equipment for the Department of Chemical Engineering, DUET, Karachi" under the provision of Sindh Public Procurement Rule 46(2).
- Under the provision of SPP rules 2010 (amended 2017) Notice Inviting Tender (NIT) was published in Daily Jang/ Urdu, Daily Dunya/Urdu, Awami Awaz/Sindhi, Daily Nau Sijj/Sindhi and The News / English Newspapers on 02-06-2017 in the respective language of newspapers vide advertisement No. PID (K) #4606/16. The same advertisement/NIT and bidding documents is hoisted on SPPRA website at Serial No: 33676 and DUET official website i.e. www.duet.edu.pk. under the provision of SPP rules 2010(amended in 2017)
- The Following Members of Procurement Committee were present at the time of opening of Technical Proposals:

S No.	Name & Designation	Department	Status
01	Prof. Dr. Dost. Ali Khowaja	Academic Coordinator, DUET, Karachi	Convener / Member
02	M. Asif Mughal Procurement Officer	DUET, Karachi	Member / Secretary
03	Mr. Ashfaq Issani Ast. Professor, (Ex-Director P&D)	MUET, Jamhsoro	External Member
04	Prof. Dr. Abdul Waheed Bhutto DEAN (FoE),	DUET, Karachi	Co-opted Member-Technical
05	Capt. ® Syed Waqqar Hussain Acting Registrar/Project Director (Strengthening of DUET)	DUET, Karachi	Co-opted Member
06	S. M Shabbir Director Finance	DUET, Karachi	Co-opted Member





In response to the DUET NOTICE INVITING TENDERS the following Bidders were submitted their Bids within the deadline of submissions of Bids & were present at the time of opening of the Technical Proposals

1. M/S RASTEK TECHNOLOGIES
2. M/S RIZVI & COMPANY
3. M/S TECHNOLOGY LINK
4. M/S PAKTECH INSTRUMENTS
5. M/S TECHNOTRADE (Not present at the time of Opening of Bid)
6. M/S SAS ENTERPRISES

The bids were opened at 12:30 p.m. in the presence of the above mentioned bidders. All the members of the Procurement Committee signed Technical Proposal submitted by bidders.

The Committee proceeded as per the procedure prescribed in rule-46 (2) of SPPRA Rules 2010 (amended 2017) Initially only the envelopes marked as "Technical Proposals" were opened in the presence of bidders and the envelopes marked as Financial Proposals retained in the custody of Procurement Committee without being opened.

The Procurement Committee then examined all the Technical Bids / Proposals without reference to the Prices as per the technical evaluation criteria provided in the Bidding documents & examined the documents submitted by the bidders.

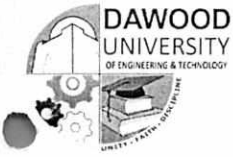
On the basis of Technical Evaluation (sheet enclosed) "Procurement Committee" proposed to open the Financial Proposal of the following Bidders qualified in the technical evaluation (evaluation sheet attached)

BIDDER 01:

M/S RASTEK TECHNOLOGIES has quoted all items of Fluid Mechanics Lab (BOQ-02) only and qualified technically in all items of FLUID MECHANICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT.

BIDDER 02 :

M/S RIZVI & COMPANY has quoted all items of Fluid Mechanics Lab (BOQ-02) and Thermodynamics Lab (BOQ-4) and qualified technically in all items of FLUID MECHANICS LABORATORY AND THERMODYNAMICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT)



BIDDER 03:

M/S TECHNOLOGY LINK has submitted technical proposal for All Items of Fluid Mechanics Lab (BOQ-02) and 05 items of Thermodynamics Lab (BOQ-04) Qualified technically

BIDDER 04:

M/S PAKTECH INSTRUMENTS has quoted all items of Fluid Mechanics Lab (BOQ-02) and 02 items of Thermodynamics Lab (BOQ-4) and qualified technically in all items of Fluid Mechanics Lab only as per BOQ-2

BIDDER 05:

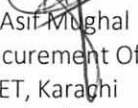
M/S TECHNOTRADE has quoted only 01 item at Serial No. 01 for Computer Simulation and Modeling Lab (BOQ-01) and qualified technically in the item.

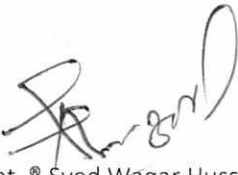
BIDDER 06:


M/S SAS ENTERPRISES has quoted only 01 item at Serial No. 01 of THERMODYNAMICS LAB (BOQ-04) CHEMICAL ENGINEERING DEPARTMENT.


Procurement Committee observed that only single bid received/submitted for only one (01) item as per the schedule of requirements-01 i.e. Computer simulation and modeling laboratory-chemical engineering department and no bid is submitted/received for schedule of requirements-03 i.e. Seminar library- chemical engineering department.


The meeting ended with the vote of thanks to and from the chair.


M. Asif Mughal
Procurement Officer
DUET, Karachi
Member/Secretary


Capt. * Syed Waqar Hussain
Acting Registrar/Project Director-
Strengthening of DUET Project
Co-Opted Member


S. M. Shabbir
Director Finance
DUET, Karachi
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Prof. Dr. Abdul Waheed Bhutto
DEAN (FoE),
DUET, Karachi
CO-Opted Member


Mr. Ashfaq Issani
Asst. Professor
(Ex-Director P&D)
MUET, Jamshoro


Prof. Dr. Dost Ali Khowaja
Academic Coordinator
DUET, Karachi
Convener/Member

MINUTES OF THE MEETING

OPENING OF FINANCIAL PROPOSALS FOR PROCUREMENT OF LABORATORY EQUIPMENT FOR THE DEPARTMENT OF CHEMICAL ENGINEERING, DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET), KARACHI (SPPRA SR. NO. 33676)

1. Meeting of the procurement committee is held on 15-08-2017 (02:00 pm) in the conference room of Vice Chancellor's Secretariat to open the Financial (sealed) envelopes of technically qualified bidder under the provision of SPP rules 2010 (amended in 2017) of rule 46(2).
2. The Following Members of Procurement Committee were present at the time of opening of Financial Proposals / Bids:

S No.	Name & Designation	Department	Status
01	Prof. Dr. Dost. Ali Khowaja	DEAN/Academic Coordinator, DUET, Karachi	Convener/ Member
02	M. Asif Mughal Procurement Officer	DUET, Karachi	Member/ Secretary.
03	Mr. Ashfaq Issani Ast. Professor (Ex-Director P&D)	MUET, Jamhsoro	External Member
04	Prof. Dr. Abdul Waheed Bhutto DEAN Faculty of Engineering	DUET, Karachi	Co-opted / Technical Expert
05	Capt. ® Syed Waqqar Hussain Acting Registrar/Project Director (Strengthening of DUET)	DUET, Karachi	Co-opted
06	S. M Shabbir Director Finance	DUET, Karachi	Co-opted

Following bidders were present at the time of opening of Financial Proposals:

1. M/S RASTEK TECHNOLOGIES
2. M/S RIZVI & COMPANY
3. M/S TECHNOLOGY LINK
4. M/S PAKTECH INSTRUMENTS
5. M/S TECHNOTRADE (Not present at the time of Opening of Bid)
6. M/S SAS ENTERPRISES



The Convener of Procurement Committee Prof. Dr. Dost. Ali Khawaja opened the financial (sealed) bids at (12:30 pm) in the presence of all the members of Procurement Committee and above mentioned participant/bidder in the conference room of Vice Chancellor's Secretariat at DUET, Karachi. The rates quoted by the bidder were read aloud and encircled by Chairman/Convener of the Procurement Committee. All the members of the Procurement Committee signed each and every page of financial proposal/ bids. The bids do not contain any over-writing or cutting.

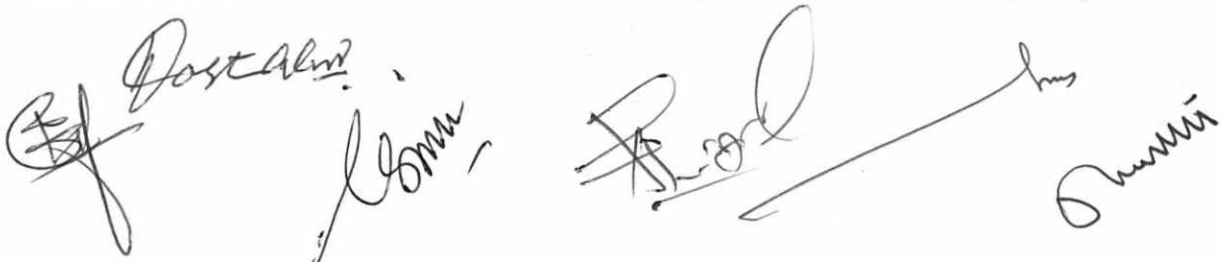
Following are the details of bid announced:

S. No.	Name of Bidder	Offered Price (C&F)	Offered Price (PKR)	Amount of Bid Security Submitted by Bidder (2% of quoted amount)	Pay Order No./ Date
1	2	3	4	5	6
01	M/S RASTEK TECHNOLOGIES	€ 100,384	12,548,000	270,000	16524 / 15.06.17
02	M/S RIZVI & COMPANY	€ 65,926 (BOQ-02)	7,961,883	517,500	02190244 / 16.06.2017
		€ 134,997 (BOQ-04)	16,303,588		
		€ 200,963	24,270,301		
03	M/S PAKTECH INSTRUMENTS	€ 68,382	8,258,494	205,000	11388204 / 16.06.17
04	M/S TECHNO TRADE	-	998,000	20,000	03449346 / 13.06.2017

Following Financial Bids Rejected:

Procurement Committee rejected the financial proposal/bid of M/S TECHNOLOGY LINK as due to non-submission of required amount of Bid Security and also found conditional (financial) bid/Non-Compliant under the terms and conditions mentioned in the Notice Inviting Tenders (NIT) under the provision of SPP rules 2010 (amended 2017). Procurement Committee further proceeded and rejected the Financial Bid of M/S SAS ENTERPRISES as found not substantially responsive & non-compliant Bid under the provision of SPP rules 2010(amended 2017).

The Price were quoted by the bidder in various currencies which then converted into Pak Rupees (PKR) after applying the conversion rate opted according to SPP rules 2010(amended 2017) of rule 42 (the rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids specified in the bidding documents, as notified by the State Bank of Pakistan). However it has been observed that the conversion rate may be varied (in future) at the time of opening of LC.



Under the provision of SPP rules 2010 (amended 2017) Procurement Committee further proceeded and forwards the recommendation to the Competent Authority i.e. Vice Chancellor, DUET for award of Contract to M/S PAKTECH INSTRUMENTS for Procurement of Lab Equipment of Fluid Mechanics Laboratory (BOQ-02) and M/S RIZVI & CO for Procurement of Lab Equipment of Thermodynamics Laboratory and M/S TECHNOTRADE for Procurement of CHEMCAD Process Simulation Suite (Latest VERSION) COMPUTER SIMULATION AND MODELING LABORATORY.

The meeting ended with the vote of thanks to and from the chair.




M. Asif Mughal
Procurement Officer
DUET, Karachi
Member/Secretary



Capt. Syed Waqar Hussain
Acting Registrar/Project Director-
Strengthening of DUET Project
Co-Opted Member



S. M. Shabbir
Director Finance
DUET, Karachi
Co-opted Member



Prof. Dr. Abdul Waheed Bhutto
DEAN (FoE),
DUET, Karachi
CO-Opted Member



Mr. Ashfaq Issani
Asst. Professor
(Ex-Director P&D)
MUET, Jamshoro




Prof. Dr. Dost Ali Khowaja
Academic Coordinator
DUET, Karachi
Convener/Member


TECHNICAL EVALUATION SHEET (SPPRA Sr. No. 33676)


Sr. No.	Technical Evaluation	Marks	Max Marks	M/S RASTEK TECHNOLOGIES	M/S RIZVI & COMPANY	M/S TECHNOLOGY LINK	M/S PAKTECH INSTRUMENTS	M/S TECHNOTRADE	M/S SAS ENTERPRISES
	I	II	III	IV	V	VI	VII	VIII	IX
1	Technical Specifications		20						
	100%	20		20	20	20	20	20	20
	Below 100 %	00		-	-	-	-	-	-
2	Delivery		20						
	65 Days	20		-	20	-	-	20	-
	65> 75 Days	05		-	-	-	-	-	05
	75 above	03		03	-	03	03	-	-
3	Warranty Provided (as per tender document & as per ITB Clause 15.1 & 15.2 i.e. 12 Months)		10						
	Provided by bidder	10		10	10	10	10	10	10
	Not Provided by bidder	00		-	-	-	-	-	-
4	Manufacturer Authorization Certificate Mentioned in Tender Documents & in the Bid Data Sheet		10						
	Provided	10		10	10	10	10	10	10
	Not Provided	00		-	-	-	-	-	-
5	Model: Subject to no of experiments required per module		05						
	100%	05		05	05	05	05	05	05
	100%<70%	03		-	-	-	-	-	-
	Below 70%	00	-	-	-	-	-	-	
6	Training of Procuring Agency Personnel on Equipment		10						
	Free of Cost	10		10	10	10	10	10	10
	On Cost Basis / Not	00		-	-	-	-	00	-
7	Make/Manufacturer		05						
	U.S.A	05		05	-	-	-	05	05
	Japan / Korea /	03		-	03	03	03	-	-
	China & local others	02		-	-	-	-	-	-


TECHNICAL EVALUATION SHEET (SPPRA Sr. No. 33676)

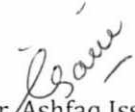
Sr. No.	Technical Evaluation	Marks	Max Marks	M/S RASTEK TECHNOLOGIES	M/S RIZVI & COMPANY	M/S TECHNOLOGY LINK	M/S PAKTECH INSTRUMENTS	M/S TECHNOTRADE	M/S SAS ENTERPRISES
8	Relevant Experience in Academia (Attach Proof)		05						
	10 or More Years	05		05	05	05	05	05	05
	Less than 10 Years	02		-	-	-	-	-	-
9	Installation of Equipment		05						
	(a) Free of Cost	05		05	05	05	05	05	05
	(b) On cost basis	00		-	-	-	-	-	-
10	Fulfillment of requirements		10	03	04	04	04	01	02
	Total Marks for Technical	100		76	92	75	75	81	77
	Remarks			Qualified in all items quoted for Fluid Mechanics Lab)	Qualified in all items quoted for Fluid Mechanics and Thermodynamics Lab)	Qualified in all items quoted for Fluid Mechanics Lab and 05 items of Thermodynamic Lab)	Qualified in all items quoted for Fluid Mechanics Lab & in 01 Item for Thermodynamics Lab)	Qualified in 01 item quoted for Computer Simulation and Modeling Lab)	Qualified in 01 item (Quoted only 01 item of Thermodynamic Lab)



M. Asif Mughal
Procurement Officer
DUET, Karachi
Member/Secretary


Capt. ® Syed Waqar Hussain
Acting Registrar/Project Director-
Strengthening of DUET Project
Co-Opted Member


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Director Finance
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DUET, Karachi
CO-Opted Member


Mr. Ashfaq Issani
Ast. Professor
(X-Director P&D)
MUET, Jamshoro
External Member



Prof. Dr. Dost Ali Khowaja
DEAN / Academic Coordinator
DUET, Karachi
Convener

BIDDERS QUALIFICATION/ ELIGIBILITY REPORT


Tender: Procurement of Laboratory Equipment for Chemical Engineering Department, (SPPRA
SERIAL NO: 33676)

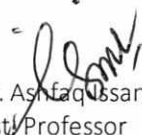
Sr. No.	Bidders Qualification	RIZVI & COMPANY	TECHNOLOGY LINK	SAS ENTERPRISES	PAKTECH INSTRUMENT	RAZTEK TECHNOLOGIES	TECHNOTRADE
1	Non-Refundable Tender Fee Rs. 1000/-	YES	YES	YES	YES	YES	YES
2	Undertaking on legal valid and attested Stamp Paper that the firm is not blacklisted by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector Organization anywhere in Pakistan;	YES	YES	YES	YES	YES	YES
3	Undertaking on legal valid and attested Stamp Paper that all the information/documented proof which are submitted in response to this tender are true and correct.	YES	YES	YES	YES	YES	YES
4	Valid Income Tax , GST & NTN Registration Certificate	YES	YES	YES	YES	YES	YES
5	Active Tax Payer (Attach Proof to be verified online)	YES	YES	YES	YES	YES	YES
6	Turnover at least past three years 30.000 M (For Proof attach Bank statement duly signed by the Concerned Bank Authority / Branch Manager)	YES	YES	NO	YES	YES	YES
7	Required bid security i.e. 2% of Quoted Bid Amount (Copy/Details of Pay Order must be provided in the Technical Envelope and Original PO shall be kept in Financial Proposal)	YES	NO	YES	YES	YES	YES
8	Each and every page of bidding documents and other must be signed and stamped by the authorized person of the firm along with an authorization letter.	YES	YES	YES	YES	YES	YES
	Remarks	COMPLIANT	NON COMPLIANT	NON COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT


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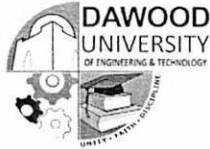

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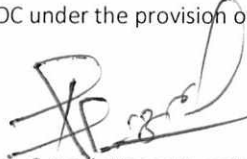
COMPARATIVE STATEMENT


BOQ- 02: FLUID MECHANICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT


S.No	Description	Qty.	M/S RASTEK TECHNOLOGIES			M/S RIZVI & COMPANY			M/S PAKTECH INSTRUMENTS		
			1			2			4		
			Unit Price	Total Price	Total Price In PKR	Unit Price	Total Price	Total Price In PKR	Unit Price	Total Price	Total Price In PKR
1	Basic Hydraulic Bench	6	€7,999	€47,994	5,796,235	€5,094	€30,564	3,691,214	€ 4,700	€ 28,200	3,405,714
2	Flow Over Weirs	1	€1,846	€ 1,846	222,941	€ 918	€ 918	110,866	€ 1,310	€ 1,310	158,208
3	Bernoulli's Theorem Demonstration	1	€5,499	€ 5,499	664,114	€2,302	€ 2,302	278,012	€ 2,052	€ 2,052	247,820
4	Orifice Discharge	2	€5,499	€10,998	1,328,228	€2,647	€ 5,294	639,356	€ 3,350	€ 6,700	809,159
5	Osborne Reynold's Demonstration	1	€7,999	€ 7,999	966,039	€2,603	€ 2,603	314,364	€ 2,610	€ 2,610	315,209
6	Flow Meter Demonstration (Venturi Meter)	1	€6,999	€ 6,999	845,269	€3,540	€ 3,540	427,525	€ 3,350	€ 3,350	404,579
7	Energy losses in bends	1	€6,550	€ 6,550	791,043	€ 11,050	€11,050	1,334,508	€ 3,000	€ 3,000	362,310
8	Series / Parallel Pumps	1	€5,999	€ 5,999	724,499	€4,234	€ 4,234	511,340	€ 3,760	€ 3,760	454,095
9	Centrifugal Pump Characteristics	1	€6,500	€ 6,500	785,005	€5,421	€ 5,421	654,694	€ 4,800	€ 4,800	579,696
Total Amount				€100,384	12,123,375		€65,926	7,961,883		€ 55,782	6,736,792
Remarks				Highest			2nd Lowest			1st Lowest	


M/S PAKTECH INSTRUMENTS has quoted all items of Fluid Mechanics Lab and found 1st Lowest among others and substantially responsive bid, Procurement Committee Recommends M/S PAKTECH INSTRUMENTS for AOC under the provision of SPP rules 2010 (amended 2017).

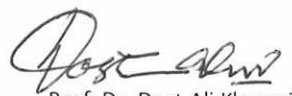

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Mr. Asif Iqbal
Asst. Professor
(Ex-Director P&D)
MUET, Jamshoro


Prof. Dr. Dost Ali Khawaja
Academic Coordinator
DUET, Karachi
Convener



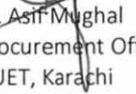
DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET)
NEW M.A. JINNAH ROAD, KARACHI-74800 (PAKISTAN)
PHONE: 021-99231195-98, 99230307 FAX: 021-99230710

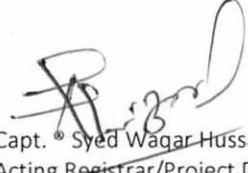
COMPARATIVE STATEMENT

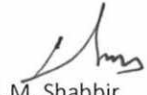
BOQ-4: THERMODYNAMICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT

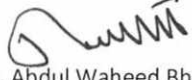
S.No	Description	Qty.	M/S RIZVI & COMPANY		
			Unit Price	Total Price	Total Price In PKR
1	Calorimeter	01	€ 26,851	€ 26,851	3,242,795.27
2	Boyle's Law Demonstrator	01	€ 13,236	€ 13,236	1,598,511.72
3	Compressible Flow Base unit	02	€ 26,997	€ 53,994	6,520,855.38
4	Impulse Turbine Module	01	€ 15,001	€ 15,001	1,811,670.77
5	Vortex Tube Refrigeration Module	01	€ 13,362	€ 13,362	1,613,728.74
6	Single Stage Compressor Test Unit	01	€ 12,593	€ 12,593	1,520,856.61

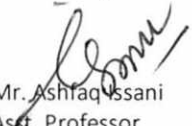
M/S RIZVI & COMPANY the only bidder who has quoted all items of Thermodynamics Labs as per PEC requirement and found substantially responsive bid therefore Procurement Committee recommends M/S RIZVI & COMPANY for AOC under the provision of SPP rules 2010 (amended 2017)


M. Asif Mughal
Procurement Officer
DUET, Karachi
Member/Secretary


Capt. Syed Wagar Hussain
Acting Registrar/Project Director-
Strengthening of DUET Project
Co-Opted Member


S. M. Shabbir
Director Finance
DUET, Karachi
Co-opted Member


Prof. Dr. Abdul Waheed Bhutto
DEAN (FoE),
DUET, Karachi
CO-Opted Member



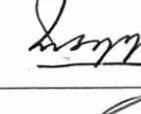

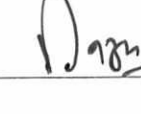

Mr. Ashfaq Issani
Asst. Professor
(Ex-Director P&D)
MUET, Jamshoro


Prof. Dr. Dost Ali Khowaja
Academic Coordinator
DUET, Karachi
Convener

Date: 16-06-2017

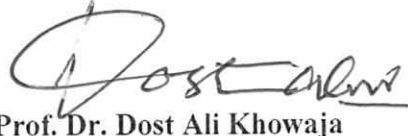
ATTENDANCE SHEET (Bidders)

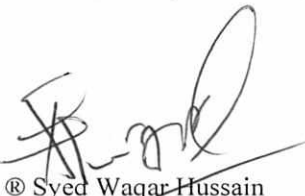
- Method of Procurement : Single Stage Two Envelope (SPPRA SR. NO. 33676)
- Date of Opening : 16-06-2017
- Title: Procurement of Laboratory Equipment for Chemical Engineering Department, DUET, Karachi.


S No.	Name of Bidder	Signature	NIC NO.	Remarks/ Contact No
01	Paktech Inst Co Shoaib Masood		42201-03997473	0333- 3126558
02	Rastek Technologies M. Feroz		42201-96358745	0311-2427 691
03	TAMIR HADEEM SYED RIZVI & CO		4210155419193	0300/ 8232768
04	SHAKEEL AHMED (SAS Enterprises)		42101-11892079	0300 9260665
05	Technology Links Pvt Aley Raza Hd		42101-14092037	0323-3122249

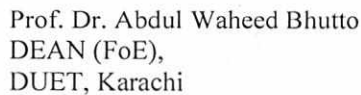

M Asif Meghal
Procurement Officer
DUET, Karachi
Member/Secretary


Ashfaq Issani
Ast. Professor
(X-Director P&D)
MUET, Jamshoro
External Member


Prof. Dr. Dost Ali Khawaja
Academic Coordinator
DUET, Karachi
Convener


Capt. © Syed Waqar Hussain
Acting Registrar/Project Director-
Strengthening of DUET Project
Co-opted Member








S. M. Shabbir
Director Finance
DUET, Karachi
Co-opted Member

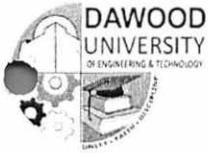

Prof. Dr. Abdul Waheed Bhutto
DEAN (FoE),
DUET, Karachi
Co-opted Member

Date: 16-06-2017

ATTENDANCE SHEET (Procurement Committee)

- Method of Procurement : Single Stage Two Envelope (SPPRA SR. NO. 33676)
- Date of Opening : 16-06-2017
- Title: Procurement of Laboratory Equipment for Chemical Engineering Department, DUET, Karachi.

S No.	Name & Designation	Signature	Remarks
01	Prof. Dr. Dost Ali Khawaja Academic Coordinator DUET, Karachi		Convener
02	Mr. Ashfaq Issani Ast. Professor, X-Director (P&D), MUET, Jamshoro		External Member
03	Prof. Dr. Abdul Waheed Bhutto, DEAN / Ex Chairman Chemical Engineering Department) DUET, Karachi		Co-Opted Member
04	Capt. ® Syed Waqqar Hussain Acting Registrar/Project Director (Strengthening of DUET),		Co-opted Member
05	S. M Shabbir Director Finance DUET, Karachi		Co-opted Member
06	Muhammad Asif Mughal Procurement Officer, DUET, Karachi		Member/Secretary



Date: 15-08-2017

ATTENDANCE SHEET (Procurement Committee)

- Method of Procurement : Single Stage Two Envelope (SPPRA SR. NO. 33676)
- Date of Opening : 16-06-2017
- Title: Procurement of Laboratory Equipment for Chemical Engineering Department, DUET, Karachi.

S No.	Name & Designation	Signature	Remarks
01	Prof. Dr. Dost Ali Khowaja Academic Coordinator DUET, Karachi		Convener
02	Mr. Ashfaq Issani Ast. Professor, X-Director (P&D), MUET, Jamshoro		External Member
03	Prof. Dr. Abdul Waheed Bhutto, DEAN / EX -Chairman Chemical Engineering Department) DUET, Karachi		Co-Opted Member
04	Capt. ® Syed Waqqar Hussain Acting Registrar/Project Director (Strengthening of DUET),		Co-opted Member
05	S. M Shabbir Director Finance DUET, Karachi		Co-opted Member
06	Muhammad Asif Mughal Procurement Officer, DUET, Karachi		Member/Secretary



Date: 15-08-2017

ATTENDANCE SHEET (Bidders)

1. Method of Procurement : Single Stage Two Envelope
 2. Date of Opening of Financial Proposal : 15-08-2017
- Title: Procurement of Laboratory Equipment for Chemical Engineering Department, DUET, Karachi.

S No.	Name of Company & Designation	Signature	Remarks/Contact No.
1.	TAMIR NADEEM SYED Process Engineer		0300/8282768
2.	Technology Links (PVT) Ltd. (Asst. Manager)		0323/3122249
3.	Rastek Technologies Engg. Jamir		0300-3142647
4.	Paktech Syst Co Sales & Service Eng		0333-3126558
5.	Shakeel Ahmed S.A. Enterprises		0300-9260655

M. Asif Mughal
Procurement Officer
DUET, Karachi
Member/Secretary

Capt. @ Syed Waqar Hussain
Acting Registrar/Project Director-
Strengthening of DUET Project
Co-Opted Member

S. M. Shabbir
Director Finance
DUET, Karachi
Co-opted Member

Prof. Dr. Abdul Waheed Bhutto
DEAN (FoE),
DUET, Karachi
CO-Opted Member

Mr. Ashfaq Issani
Asst. Professor
(X-Director P&D)
MUET, Jamshoro

Prof. Dr. Dost Ali Khawaja
DEAN / Academic Coordinator
DUET, Karachi
Convener/Member

... and 12 kanal 10 marla near Johar Town, etc. After collecting evidences against him, NAB Lahore arrested the accused and presented him before the Accountability Court and acquired his physical remand till June 8, 2017.

TO BID

Company of Pakistan invites Sealed Bids from eligible firms/persons licensed by with Federal/Provincial Income Tax & Sales Tax Departments and who are on authority (PPRA) Rule:

PEC CATEGORY	BIDDING PROCEDURE	SCHEDULE TIME FOR COMPLETION OF PROJECT	BID SUBMISSION DATE & TIME	BID OPENING DATE & TIME
C-5 & ABOVE	SINGLE STAGE TWO ENVELOPE	08 MONTHS	20-06-2017 AT 1100 HOURS	20-06-2017 AT 1130 HOURS
C-6 & ABOVE	SINGLE STAGE TWO ENVELOPE	180 DAYS	21-06-2017 AT 1100 HOURS	21-06-2017 AT 1130 HOURS
C-6 & ABOVE	SINGLE STAGE TWO ENVELOPE	180 DAYS	22-06-2017 AT 1100 HOURS	22-06-2017 AT 1130 HOURS

Conditions, procedure for submission of bids are available on OGDCL web site for the bar of Tenders under head of Services without any cost. at the address mentioned below on or before the date and time mentioned above and document is also available on PPRA website at www.ppra.org.pk

Supply Chain Management) COMPANY LIMITED
 PID(I)6537/16
 100, Islamabad - Pakistan
 Phone: +92-51-9244139
 We Explore Prosperity

IN THE COURT OF 1st ADJ / ATC KARACHI EAST

SPECIAL CASE NO. 2385/2016
 The State
 Versus
 ... Nadir Ali & Ors Accused
 FIR No. 232/2015
 U/S: 392/ 353/ 324/ 34/ 7 ATA
 P/S: New Town.

ORDER OF ATTACHMENT TO COMPEL THE APPEARANCE OF A PERSON ACCUSED (See Section 87 Cr. P.C)

Whereas complaint have been made before me that **Nadir Ali S/O Layaqat Ali, R/O, House No. D-97, Saadi vrn., Malir Cantt, Near Umar Masjid**, has committed (or is expected to has committed) the offence of punishable under section **392/ 353/ 324/ 34/ 7 ATA**, and it have been returned to warrant of arrest thereupon issued that the above named used person cannot be found; whereas it has been shown my satisfaction that the above named accused person has absconded (or is concealing himself to avoid the service of the warrant), and thereupon Proclamation has been or is being duly issued and published requiring daily newspapers, above named accused person to appear to answer the charge within 7 days and whereas the said accused person possessed of the following property other than land and revenue to Government **Malir Cantt, Karachi**, and order have been made for the attachment thereof. Case is dated on **03-June-2017**.

You are hereby required to attach the said property seizure, and to hold the same under attachment pending further order of this Court, and to return this warrant with an endorsement certifying the manner of its execution.

Dated this **25th day of May, 2017.**

Judge
 Anti-Terrorism Court/
 1st Addl: Session Court
 Karachi East

بہم دستخطی کے خلاف متحد ہیں
Say No To Corruption
 RY/2929/2017

EXTENSION

Reference to our Tender Notice in the National newspapers on 20-04-2017, it is notified that the bids submission/opening date is extended as follows:

S. NO.	TENDER ENQUIRY NO.	DESCRIPTION	EXTENDED	
			FROM	TO
1.	PROC-SERVICES/CB/PROJECTS/PQ-2075/2017	PRE-QUALIFICATION OF ENGINEERING CONSULTANTS FOR VARIOUS CONSULTANCY ASSIGNMENTS (I.E. CATG-1 & CATG-2 PROJECTS) RELATED TO OIL AND GAS FIELD DEVELOPMENT PROJECTS I.E. PRELIMINARY PROJECT FEASIBILITIES / TECHNO ECONOMIC STUDIES, PROCESS SELECTIONS, FRONT END / BASIC ENGINEERING, DETAIL ENGINEERING, COMPRESSION STUDIES, PROJECT MANAGEMENT, PROCUREMENT ASSISTANCE, SITE CONSTRUCTION AND COMMISSIONING SUPERVISION ON AS AND WHEN REQUIRED BASIS FOR A PERIOD OF FIVE (05) YEARS	DATE: 01-06-2017 SUBMISSION: 1030 HRS OPENING: 1100 HRS	DATE: 16-06-2017 SUBMISSION: 1130 HRS OPENING: 1100 HRS
2.	Bid submission / opening time and all other terms & conditions shall remain unchanged.			

General Manager (Supply Chain Management)
OIL & GAS DEVELOPMENT COMPANY LIMITED
 OGDCL House, Jinnah Avenue, Blue Area, Islamabad - Pakistan
 Phone No: +92-51-920023540, Fax No: +92-51-9244139
 PID(I)6538/16
 SAY NO TO CORRUPTION

DAWOOD UNIVERSITY OF ENGINEERING & TECHNOLOGY (DUET)
 M.A. JINNAH ROAD, KARACHI-74800 (PAKISTAN)
 PHONE: 021-99231195-98, 99230307 FAX: 021-99230710

DUET/DF/PO/CHE/LABEQP/2016-17

INVITATION FOR BIDS/ NOTICE INVITING TENDER

Sealed bids are invited from experienced well reputed firms registered with sales tax / income tax for procurement of Laboratory Equipment on item-wise C&F basis for Department of Chemical Engineering with 2% Bid Security in the shape of pay order / bank draft in the name of Dawood University of Engineering & Technology (DUET), Karachi.

Method of Procurement: Single Stage - Two Envelop Procedure for selection of firm accordance with section 46(2) of SPPRA Rules 2010, single package containing two separate envelopes each envelope should be clearly marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL".

Issuance of Tender Documents: Tender Documents will be issued from **02-06-2017 to 16-06-2017** (up to 11:30 a.m.) against the pay order of Rs. 1000/- (Non-Refundable) in favour of Dawood University of Engineering & Technology (DUET), Karachi. The Tender Document can also be downloaded from the University website: www.duet.edu.pk and the SPPRA website: www.pprasindh.gov.pk

Date & Time of Bid Submission: 16-06-2017 (12:00 noon)
Date & Time of Bid Opening: 16-06-2017 (12:30 pm)

In case of any Holiday or unforeseen situation or incident, the bids shall be issued, submitted & opened on the next working day as per schedule. Place of issuance, submission, inquiries and opening will be at Procurement Office, Dawood University of Engineering & Technology, Karachi.

- Under following conditions Bid shall be rejected.
 - Conditional and telegraphic bids/tenders
 - Bids not accompanied by bid security & non-refundable tender fee
 - Bids received after specified date and time
 - Affidavit on Stamp paper of Rs. 100/- that firm has not been black listed in any Government Organization is not provided.

Procuring agency reserves the right to reject all or any bids subject to the relevant provision of Sindh Public Procurements Rules 2010 (Amended in 2013).

PROCUREMENT OFFICER DUET- KARACHI
 PID(K)#4556/16

In Rural Support Organization (RSO) is a not-for-profit organization, registered under Section 42 of the Companies Ordinance 1984.

Rural Support Organization, under its project Expansion of UCPRP in district Khairpur, Sanghar, Mirpur Khas, Umerkot, Thatta & Badin, aimed at reducing poverty of the marginalized rural communities in the area. RSO is inviting sealed bids from registered, competent and experienced Firms, having technical and financial capabilities to provide vehicles (Car, Jeep & Van) in the said districts.

Documents containing specific terms and conditions along with prescribed Performance can be obtained from the Office of the Undersigned OR downloaded from www.srso.org.pk and will be available from 02-06-2017 09:00-2017. As per SPPRA Rules, the bids will be accepted on provision Demand Draft/Pay Order of Rs. 2000/- (Non-Refundable) and 2% bid security of total bidding price (Refundable) and 5% performance security of contract price (Refundable) subject to successful completion of contract for invited firms in favor of Sindh Rural Support Organization. The proposals (in 1 copy) should be sent as per Single Stage - Two Sealed envelope procedure. 1 envelope shall contain separately the financial proposal and the technical proposal and envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion, marked at the top right hand corner. Technical and Financial Proposals for "Tender for hiring of Rental Vehicle Services" must reach this office at the address mentioned below by June 19th 2017 at 03:00 pm and initially technical proposals will be opened on the same day at 03:30 pm in the presence of bidders/authorized representatives who wish to attend at the given address and financial proposals will be opened publicly at a time, date and venue announced and will be communicated to the bidders in advance.

Procurement Committee may reject, or increase/decrease the quantity as policy of any bid received and may cancel the bidding process at any time till the acceptance of bid/proposal.

Procurement Unit

ISO Complex, near Taj Petrol Pump, Shikarpur Road, Sukkur, Pakistan.
Web: www.srso.org.pk Email: info@srso.org.pk
Tel No.: 071-56271820

داؤد یونیورسٹی



آف انجینئرنگ اینڈ ٹیکنالوجی (DUET)
نوا ایم ایس جسٹس روڈ، کراچی۔ 74800 (پاکستان)
فون: 99230307, 99231195-98 فیکس: 1-99230710

DUET/DF/PO/CHE/LABEQP/2016-17

پیشکشوں کی طلبی / اینڈر ٹیلر طلبی نوٹس

داؤد یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی (DUET) کراچی کے کمپیوٹر سائنسز ڈیپارٹمنٹ میں لیبارٹری ایڈجسٹمنٹ کے لیے آئٹو وار C&F کی بنیاد پر سیلز مین/آفیسر/کنکٹس ڈیپارٹمنٹ سے رجسٹرڈ معروف تجربہ کار فرمز سے 2% ڈیسکونٹی بشکلیں ہے آرڈر بک ڈرافٹ نام داؤد یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی (DUET) کراچی کے ہمراہ سربراہ پیشکشیں مطلوب ہیں۔

پروویڈر کے مطابق کارڈ: SPPRA، روز 2010ء کے سیکشن (2)46 کے تحت فرم کے انتخاب کے لیے سٹاک اینج نوٹس طلبی پر سٹیج بروئے کار لایا جائے گا۔ سٹاک اینج دو مجلہ و معالجہ الفانوں پر مشتمل محتلف لٹریچر پر پوزل اور "ٹیکنیکل پروپوزل" واضح طور پر درج ہونا چاہئے۔

میںڈر دستاویزات کا اجراء: بڈنگ دستاویزات - 1000/- (نا قابل واپسی) کا بنے آرڈر

داؤد یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی (DUET) کراچی پیش کرنے پر 2-06-2017

16-06-2017 (دن 11:30 بجے) جاری کی جائیں گی۔

میںڈر دستاویزات یونیورسٹی کی ویب سائٹ: www.pprasinadh.gov.pk اور SPPRA

بیب سائٹ: www.pprasinadh.gov.pk سے بھی ڈاؤن لوڈ کی جا سکتی ہیں۔

پیشکشیں جمع کرانے کی تاریخ اور وقت: 2017-06-16 (دن 12:00 بجے)

پیشکشیں کھلنے کی تاریخ اور وقت: 2017-06-16 (دن 12:30 بجے)

مقررہ تاریخ کو کسی عام تعطیل یا غیر متوقع صورتحال یا واقعے کے باعث پیشکشیں آئندہ کام و لا شیڈیل کے مطابق جاری، ہسول اور کھولی جائیں گی۔ پیشکشوں کے اجراء، وصولی، معلومات کے اور خطے کا مقام پر پروویڈر آفس، داؤد یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی، کراچی ہوگا۔

نوٹ: میں شرائط و اہلی پیشکشیں مسترد کر دی جائیں گی:

- i- اگر سربراہ و دیگر اہلی پیشکشیں/ٹیکنیکل پیشکشیں/ٹیکنیکل
- ii- اگر بڈنگ ہالڈنگ سیکورٹی اور نا قابل واپسی مینڈر ٹیلر کے بغیر موصول ہونے والی پیشکشیں
- iii- مقررہ تاریخ اور وقت کے بعد موصول ہونے والی پیشکشیں
- iv- 100/- Rs کے اسٹامپ پیجی پر اس بات کا حلیہ بیان فراہم کرنے کی صورت میں

فرم کسی نہ کار می اور سے کی جانب سے بلیک لسٹ نہیں رہی۔

میںڈر پبلک پروویڈر دستاویزات: 2010 (ترمیم شدہ 2013) کی محتلف شیڈ کے تحت پروویڈرنگ آف کئی ایک یا تمام پیشکشوں کو مسترد کرنے کا حق حاصل ہے۔

پروویڈرنگ آف DUET، کراچی

PID(K)#4556/16

H.E.J. RESEARCH INSTITUTE OF CHEMISTRY INTERNATIONAL CENTER FOR CHEMICAL AND BIOLOGICAL SCIENCES UNIVERSITY OF KARACHI, KARACHI-75270
RFP NO. ICCBS/HEJ/PRF 14619/ERP-CON-210617
REQUEST FOR PROPOSALS FOR ERP IMPLEMENTATION

سینٹر کو ERP Implementation کی کونسلٹی کے سلسلے میں سندھ ریویونیو بورڈ، جنرل سیکرٹری اور ایگزیکٹس (جہاں لاگو ہوتا ہو) سے رجسٹرڈ فرمز سے FOR کی بنیاد پر اور کوٹائی اور قیمت میں سب سے کم قیمت (QCBM) کے طریقے پر سربراہ تیار مطلوب ہیں۔

RFP کی دستاویزات 06 جون 2017 یا اخبارات میں اس اشتہار کی اشاعت یا ویب سائٹس کراس اشیاہ کے آدیاں ہونے کی تاریخ سے سینٹر کے پریز آفس سے کام کے کسی بھی دن صبح 9:30 سے دوپہر 12:00 بجے کے درمیان مبلغ 300/- روپے کی (نا قابل واپسی) ادائیگی بصورت پے آرڈر (بیرون کراچی کے پلانڈ سے ذریعہ ایم ایف ڈرافٹ) بنا م. H.E.J. Director پر حاصل یا ویب سائٹ www.pprasinadh.gov.pk اور www.iccs.edu سے ڈاؤن لوڈ کئے جا سکتے ہیں۔

RFP کی دستاویزات جاری کرنے کی آخری تاریخ 20 جون 2017 ہے۔ پیشکشیں بڈنگ کے 2% کے مساوی رقم کے ذریعہ نا بصورت پے آرڈر بنا م. H.E.J. Director کے ہمراہ 21 جون 2017 10:30 بجے تک دی جائیں۔ پیشکشیں اسی روز صبح 11:00 بجے ہوئی ہونگیاں یا ان کے نمائندوں کی موجودگی میں سینٹر کے مینڈر ٹیلر میں کھولے جائیں گے۔ متبادل/اختیاری پیشکشیں RFP کی قطعہ دستاویز پزریعت کے قطعہ پے آرڈر کے ہمراہ دی جائیں۔ پروویڈرنگ سPP کے قواعد میں کی مشن نمبر 25 کی بنیاد پر کئی بھی یا تمام پیشکشوں کو مسترد کر سکتی ہے۔

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کنسلٹنٹس کی پری کوالیفیکیشن
نیو پیٹا اور انٹرنیشنل آئیر پورٹ کی تعمیر کیلئے جگہ کا انتخاب

پاکستان سول ایوی ایشن اتھارٹی (پی ای اے) نے بڑھتے ہوئے فضائی ٹریفک کی ضروریات کو پورا کرنے کی خاطر شہر کے مشافاتی علاقوں سمیت پشاور میں نئے بین الاقوامی ایئر پورٹ کے قیام اور مناسب جگہ کے انتخاب کیلئے تحقیقی اور تجزیاتی اسٹڈیز کا فیصلہ کیا ہے۔

پی ای اے کو کنسلٹنٹ کی خدمات دیکر ایئر پورٹ کے مینڈر ٹیلر کے مطابق نئے ایئر پورٹ کیلئے مناسب جگہ کے بارے میں تجویز کے ساتھ زمین/اسہولیات، فیئر مینس اسٹڈیز اور ایئر پورٹ ماسٹر پلاننگ پری مشل رپورٹ پیش کرے۔ پاکستان انجینئرنگ کونسل سے رجسٹرڈ اور بڑے پیمانے پر ایئر پورٹ کا انتظام سنبھالنے اور ایوی ایشن کے منصوبوں کی پلاننگ اور ذمہ داریوں کو نبھانے والے پیشکش کنندگان کو جاننے اور مالی استحکام کی حالت جو ایئر پورٹ کی تعمیر اور انٹرنیشنل فرمز کی کنسلٹنٹ سے پری کوالیفیکیشن کی درخواستیں مطلوب ہیں۔

تمام کنسلٹنٹس نیس پاکستانی روپے میں پیشکشیں اور ہونا چاہئے۔

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کنسلٹنٹس فرمز کی جانب سے پری کوالیفیکیشن کیلئے تصدیقی اسٹڈیز اور دستاویزات جمع کروانے کیلئے درخواست فارمز مندرجہ ذیل پتے پر دستیاب ہیں۔

پی ای اے کے کسی ایک یا تمام درخواستوں کو جب ضرورت پڑے گی اور منظور ہونے کے بعد قبول یا مسترد کرنے کا حق محفوظ رکھتی ہے۔

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موت میں رہا۔ یہیت جیور برہم میں تین الاواںی برہم میں دو اہلک یا اس مہم پر پتہ لڑنے میں اس وقت رساں اداروں کے سینئر ایڈیٹرز سے گفتگو کرتے ہوئے کوئی ریاستی کردار نہیں۔ انہوں نے کہا کہ بعض معاملات پیش آنے کے لیے کچھ لوگوں نے انفرادی حیثیت میں حسب میں روس کو بدنام کرنے کی کوشش بھی کی گئی ہے۔

DHA کراچی کی مالکہ رہائشی پلاٹ فائل نمبر 25438-S-RES-1200 اسکوائر یارڈ پلاٹ نمبر 3109-6-D واقع DHA سٹی پانچس 15 اپریل 2015 کو دفاتر پانچس میں۔ اپنے پیچھے درج ذیل قانونی ورثہ چھوڑے ہیں:

1- سہ ماہی سمیرا عرفہ فاطمہ (والدہ) 2- جناب عبدالرؤف خان (بھائی) 3- جناب عبدالصہب خان (بھائی) 4- مس رابعہ بی بی (بہن) 5- جناب عبدالقادر خان (بھائی) 6- محترمہ نازیدہ (بہن) 7- جناب عبدالقادر خان (بھائی) 8- محترمہ نازیدہ خان (بھائی)

مندرجہ بالا پلاٹ بنام مندرجہ بالا قانونی ورثہ کے نام منتقل کیا جا رہا ہے۔ اگر کسی کوئی دعویٰ اعتراض ہو تو تقاضا کرنا کوئی تحریری طور پر 15 دن کے اندر مطلع کریں بعد ازاں معاد کوئی دعویٰ اعتراض تقاضا کرنا کی جانب سے قبول نہیں کیا جائیگا۔

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Tender Opening Date and Time	20 th June 2017 1130 Hrs

Tender documents can be purchased between 1100 hours to 1400 hours on any working day against cash payment of Rs.500/- (Rupees Five Hundred Only) per tender (non-refundable).

The tenders will be received at the address given below and will be opened on the same day at the time mentioned above in the presence of representatives of the bidders. Tender Notice is also available at website www.ppra.org.pk

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میسرز پاکستان ڈیفنس آفیسرز ہاؤسنگ اتھارٹی کراچی

عوام الناس کو مطلع کیا جاتا ہے کہ مرحوم محمد یاسین Al-Shafi ولد یاسین محمد (مرحوم) مکان نمبر 279، پلاٹ نمبر 9، ہاتھ کراچی، کراچی میں رہائش پذیر تھے جنکا انتقال متحدہ عرب امارات میں مورخہ 21 اکتوبر 2010 کو ہو چکا ہے اور مرحوم نے اپنے بعد درج ذیل قانونی ورثہ چھوڑے ہیں (1) مسماۃ انیسہ عبدالرشید عبداللہ (بہن بیوہ)، (2) آصف محمد یاسین (بیٹا)، (3) عامر محمد یاسین (بیٹا)، (4) سمیرہ (بہن بیوہ)، (5) جام محمد یاسین (بیٹا)، (6) سلمیٰ محمد یاسین (بہن بیوہ)، (7) فیضہ Asinar محمد (دوسری بیوہ)، (8) سونا (بہن بیوہ)، (9) سعد (بیٹا)، (10) سلیمان (بیٹا)، (11) سمیرہ (بہن بیوہ)، (12) صائمہ (بہن بیوہ)، (13) شہاب (بیٹا)، مرحوم کا درج ذیل پلاٹ نمبر 48-B مع تعمیر شدہ گراؤنڈ پر اون اسٹوری بلڈنگ پینل ہائی وے، فیئر II، رقبہ 1120 مربع فٹ یا تقریباً بمقام پاکستان ڈیفنس آفیسرز ہاؤسنگ اتھارٹی (D.H.A) کراچی میں واقع ہے۔ اب مذکورہ بالا قانونی ورثہ نے مذکورہ پلاٹ کو اپنے نام ترانسفر کرنے کے لئے درخواست دائر کی ہے۔ اس ضمن میں اگر کسی کوئی اعتراض یا دعویٰ ہو تو اندرون 15 یوم تحریری طور پر ڈائریکٹر ٹرانسفر اینڈ ریکارڈز DHA کراچی کو مطلع کریں بعد ازاں معاد کوئی اعتراض یا دعویٰ قابل قبول نہیں ہوگا اور ٹرانسفر کی کارروائی مکمل کر لی جائیگی۔

(المتمہ: میسرز پاکستان ڈیفنس آفیسرز ہاؤسنگ اتھارٹی کراچی)

داؤد یونیورسٹی
آف انجینئرنگ اینڈ ٹیکنالوجی (DUET)
نواحیہ اے جٹ روڈ، کراچی۔ 74800 (پاکستان)
فون: 98-992330307, 99231195-98
DUET/DF/PO/CHE/LABEQP/2016-17

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داؤد یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی (DUET)، کراچی کے کیمیکل انجینئرنگ ڈپارٹمنٹ میں لیبارٹری ایجوکیشنل پروڈیوٹرز کے لئے اسٹیم اور C&F کی بنیاد پر سٹیل / آئرن / ٹینک / ڈیم / پارٹس سے ریسرچ، مہموف تجربہ کار فہرست سے 2% ڈسکونٹ پر پیشکشیں طلب ہیں۔

پروڈیوٹرز کا طریقہ کار: SPPRA رولز 2010 کے سیکشن (2) 46 کے تحت فرم کے انتخاب کے لئے سنگل اسٹیج / نو انویلیٹ پروسیجر برائے کار لایا جائے گا، سنگل ٹیکنیج دو ملحدہ لفافوں پر مشتمل ہے۔ متعلقہ لفافے پر "فائنل پروڈیوٹرز" اور "ٹیکنیکل پروڈیوٹرز" واضح طور پر درج ہونا چاہئے۔ ٹینڈر دستاویزات کا اجراء: ہڈنگ دستاویزات - Rs.1000/- (تاقابل واوسی) کا پے آرڈر

داؤد یونیورسٹی آف انجینئرنگ اینڈ ٹیکنالوجی (DUET)، کراچی پیشکش کرنے پر 02-06-2017 تا 16-06-2017 (دن 11:30 بجے) جاری کی جائیں گی۔

ٹینڈر دستاویزات یونیورسٹی کی ویب سائٹ: www.pprasindh.gov.pk سے بھی ڈاؤن لوڈ کی جاسکتی ہیں۔

پیشکشیں جمع کرانے کی تاریخ اور وقت: 16-06-2017 (دن 12:00 بجے)

پیشکشیں کھلنے کی تاریخ اور وقت: 16-06-2017 (دن 12:30 بجے)

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سندھ پبلک پروڈیوٹرز رولز 2010 (ترمیم شدہ 2013) کی متعلقہ شق کے تحت پروڈیوٹرز انجینئری کو کسی ایک یا تمام پیشکشوں کو مسترد کرنے کا حق حاصل ہے۔

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 مختلف
 سان جي
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 ٻي اسان
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ڏرڪري: پورهيت بچڙن سميت ٻيا جي ظلم خلاف احتجاجي مظاهرو ڪري رهيو آهي

ترجيبي
 ويندي سٺي خاڪو ڏي
 انعام سان نوازبو ويندو
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 ڪارروائي سٺي ويندي

دفترڪ

فون نمبر: 105
 فيڪس نمبر: 4

شاپ بڙ

- (1) هر عام ۽ خاص کي وصولي جي حقن جو وڳي صبح هن دفتر نه ٿي سگهيو ته ٻيو باوجود به نيلا نه وڳي منعقد ٿيندو. نيلا جي شرط ۽ (1) نيلا محفرو جي مقابلي ۾ هڪ ڪال ڊيا آفيسر حيدرآباد (2) سڀني کان اوچوڻ حصو ڪرائڻ ۾ نا قسطن ۾ پوڪنٽريڪٽ (3) پيٽرول پمپ ڪنٽريڪٽر (4) هورڊنگز/مين انهن ڪيٽي (6) نئين شاپ به ڏني ويندي. (7) ڪامياب وڃڻ تي ڪي (8) انڪريٽڪ (9) CBH جي ويندي (10) هي ٽيڪو (11) نيلا جو نه (12) ڪنٽونمينٽ ڪنهن به راءِ حيدرآباد روڊ

بلديه عظيمي ڪراچي

تصحيح

انفرادي مشير جي مقرري بابت eCCS, CCIS E&IP SPP رول 2010 (ترميم ٿيل 2017) جي شق (8) 72
 حوالو اشتهاار (RO No.KMC/MMD/217/17) جيڪو روزاني ڊان. جنگ ۽ عوامي آواز ۾ تاريخ 18_05_2017 تي شايع ٿيو هو ۽ SPPRA جي ويب سائيٽ تي اپ لوڊ ڪيو ويو. ان ڏس ۾ درخواستون هاڻي 19_06_2017 تائين وصول ڪيون وينديون.
سينيئر ڊائريڪٽر
هيومن ريسورسز مينيجمينٽ ڪي ايم سي

دائود يونيورسٽي
 آف انجنيئرنگ اينڊ ٽيڪنالاجي (DUET)
 نواب پور ڇانور ڪراچي. 74800 (پاڪستان)
 فون: 99231195_98_99230307. فڪس: 021_99230710
 DUET DF/PO/CHE/LABEQP-2016_17



اچڻ جي طلبي/ٽينڊر طلب ڪرڻ جو نوٽيس

دائود يونيورسٽي آف انجنيئرنگ اينڊ ٽيڪنالاجي (DUET) ڪراچي جي ڪيمپس ۾ ڊپارٽمينٽ ۽ لائبريري ايڪوئيزيشن جي پروسچيورمينٽ جي لاءِ آفيسر وار C&F جي بنياد تي سيلز ٽيڪس، انڪس ٽيڪس ڊپارٽمينٽ وٽ رجسٽرڊ مشهور تجربيڪار فرمز کان 2 سيڪڙو بڊ سيڪيورٽي پي آرڊر بينڊ ڊرافٽ جي صورت ۾ نالي دائود يونيورسٽي آف انجنيئرنگ اينڊ ٽيڪنالاجي (DUET) ڪراچي سان گڏ مهربند آڇون گهربل آهن.
 پروسچيورمينٽ جو طريقو سڌارو: SPPRA رول 2010 جي سيڪشن (2) 46 جي تحت فرم جي چونڊ لاءِ سنگل اسٽيج-ٽوائونل پروسچيور ڪم ڪتب آندو ويندو. سنگل بيڪيڇ بن حدائت تي مشتمل آهي. لاڳاپيل لٽاف تي "فائنل پروپوزل" ۽ "ٽيڪنيڪل پروپوزل" واضح طور لکيل هئڻ گهرجن.
 ٽينڊر دستاويزن جو اجراءِ: بڊنگ دستاويز Rs. 1000 (تاقابل واپسي) حوبي آرڊر/حقن دائود يونيورسٽي آف انجنيئرنگ اينڊ ٽيڪنالاجي (DUET). ڪراچي پيش ڪرڻ تي 2017_06_02 کان 2017_06_16 صبح 11:30 وڳي جاري ڪيا ويندا ٽينڊر جا دستاويز يونيورسٽي جي ويب سائيٽ www.duet.edu.pk ۽ SPPRA جي ويب سائيٽ (www.pprasinhd.gov.pk) تان به بائون لوڊ ڪري سگهجن ٿا.
 اچڻ جمع ڪرائڻ جي تاريخ ۽ وقت: 2017_06_16 (منجھند 12:00 وڳي) اچڻ کڻڻ جي تاريخ ۽ وقت: 2017_06_16 (منجھند 12:30 وڳي)
 سفر ڪيل تاريخ تي ڪنهن عام موڪل يا غير متوقع صورتحال يا واقعي جي ڪري اچڻ ايندڙ ڪم واري ڏينهن تي شيڊول مقابلي جاري ڪيون. وصول ڪيون ۽ کوليون وينديون اچڻ جي اجراءِ، وصولي، معلومات حاصل ڪرڻ ۽ کڻڻ جو هنڌ پروسچيورمينٽ آفيسر، دائود يونيورسٽي آف انجنيئرنگ اينڊ ٽيڪنالاجي ڪراچي هوندو.
 هيٺين شرطن واريون آڇون رد ڪري ڇڏيون:
 i مشروط ۽ ٽيليجرافڪ آڇون/ٽينڊرز
 ii مٿي جاتائيل بڊ سيڪورٽي ۽ تاقابل واپسي ٽينڊر في ڪانسوا، وصول ٿيندڙ آڇون
 iii مقرر تاريخ ۽ وقت کانپوءِ وصول ٿيندڙ آڇون
 iv Rs.100 جي اسٽامپ پيپري تي ان گاليه جو حلف ٻين فرما نه ڪرڻ جي صورت ۾ نه فرم ڪنهن سرڪاري اداري طرفان بليڪ لسٽ نه رهي آهي.
 سنڌ پبلڪ پروسچيورمينٽ رول 2010 (ترميم ٿيل 2013) جي لاڳاپيل شق تحت پروسچيورنگ ايڪٽي ڪم ڪنهن هڪ يا سوين اچڻ کي رد ڪرڻ جو حق حاصل آهي.

پروسچيورمينٽ آفيسر
 DUET، ڪراچي
 PIDIK#4556.16

Awami Awaz Sindhi Newspapers

Schedule of Requirements
THERMODYNAMICS LABORATORY- CHEMICAL ENGINEERING DEPARTMENT

S. No	Description	Quantity	Unit Price C&F	Total Price C&F
1	<p>Calorimeter The Unit should be designed for the accurate determination of the calorific value of liquid and solid hydrocarbons and other fuels.</p> <ul style="list-style-type: none"> • Specifications: • A temperature-controlled water jacket with a built-in circulating system and an electric heater. • Oxygen bomb with an oval bucket which fits into the insulating water jacket. • A built-in automatic system for charging the bomb with oxygen. • A high precision electronic thermometer. • A bright, color, touch screen display for data entry and operation control. • Special communication ports for printer, computer and network (LAN) connections. • SD memory card slots for simple program updates and test report archiving. • Removable Oxygen Vessel and Bucket • 4-7 tests per hour • Operator time per test is approximately 6-10 minutes • 0.05 – 0.1% precision class instrument <ul style="list-style-type: none"> ◦ °C Temperature Resolution • 52 – 12000 calorie sample range • 0.05% Linearity across operating range • SD memory and TCP/IP network communications • USB Port for balance and printer connections • Updates via the Internet <p>Supplied with</p> <ul style="list-style-type: none"> • oxygen combustion vessel & installation kit • Oval Calorimeter Bucket • A high precision electronic thermometer • Water Handling System with Cooler <ul style="list-style-type: none"> • Gas Regulator (for Oxygen) • Installation and Service Manuals • Printer with cable • Built in Ethernet for data transfer to PC <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety,</p>	01		

Schedule of Requirements
THERMODYNAMICS LABORATORY- CHEMICAL ENGINEERING DEPARTMENT

	<p>Maintenance & Practices Manuals. Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>			
2	<p>Boyle's Law Demonstrator The service unit should be capable to (a) Demonstration of Boyle's Law $pV = \text{Constant}$ for air and Other safe gases. (b) Investigation of the characteristic equation of a gas $pV = mRT$ at Ambient temperature.</p> <p>The Boyle's Law Demonstrator should be a bench mounted cylinder containing test gas and bourdon tube pressure gauge as well as a Pressure relief valve. All necessary valve, pressure gauge, measuring scale and thermometer for air pressure, temperature and volume Measurement.</p> <p>Technical Specification :- Pressuring glass cylinder with pressure relief valve. Diameter 10mm. Height 220mm approx. Compressor 230V, 50Hz, 500W Compressor should be used as vacuum pump.</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	01		
3	<p>Compressible Flow Base unit The main unit consists of an instrumentation and control console that supplies a variable flow of compressed air to the range of optional modules. The unit provides common instrumentation for all of the options. Specialised instruments are included as required with the modules. Unit should accompany air Compressor to supply compressed air at 900kN/m^2 (9 Bar Gauge) at up to</p>	02		

Schedule of Requirements

THERMODYNAMICS LABORATORY- CHEMICAL ENGINEERING DEPARTMENT

	<p>8g/s (400 litre/min free air)</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>			
<p>4</p>	<p>Impulse Turbine Module The unit should be capable to</p> <ul style="list-style-type: none"> (a) Visual examination of a small impulse turbine. (b) Production of torque / speed and power / speed curves from a no Load speed of approx. 40,000 rev/min to stall and at a range of inlet pressure. (c) Comparison of turbine performance including specific air consumption when using throttle control or nozzle (4) control. (d) Application of the First Law of Thermodynamics to a simple open system undergoing a steady flow process. (e) Determination of the isentropic efficiency of a turbine and plotting the end state on a temperature / entropy diagram. (f) Determination of resisting torque due to bearing friction and disc aerodynamic friction at various speeds. <p>An impulse turbine should be supplied with 4 separate nozzles and Control valves, a throttle valve and belt brake dynamometer. Inlet and outlet air temperatures should be recorded allowing the temperature drop due to work output should be measured.</p> <p>Inlet and outlet air pressures, temperatures and air flow rate, turbine Torque and speed should be recorded by a combination of instrumentation on the compressible base unit with the module.</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p>	<p>01</p>		

Schedule of Requirements

THERMODYNAMICS LABORATORY- CHEMICAL ENGINEERING DEPARTMENT

	<p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>			
5	<p>Vortex Tube Refrigeration Module The unit should be capable to</p> <ul style="list-style-type: none"> • Demonstration of the ability to produce hot and cold air streams from a device with no moving parts • Production of performance curves for a vortex tube with:- • Variation of inlet pressure • Variation of hot and cold gas ratios • Variation of gas used(locally sourced) • Determination of the refrigerating effect and comparison of this with the estimated power required to drive the compressed air source <p>A compressed air vortex tube has two outlet ports that can be adjusted to vary the proportion of flow that leaves from the hot and cold exit points. Using a common compressed air source at ambient temperature, the cold stream can reach temperatures below -30°C and the hot stream temperatures above 50°C.</p> <p>The effect of air supply pressure on the performance can be investigated together with the overall refrigerating effect. The pressures, temperatures and air flow rate are recorded by a combination of instrumentation on the Compressible Flow Range</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	01		

Schedule of Requirements

THERMODYNAMICS LABORATORY- CHEMICAL ENGINEERING DEPARTMENT

6	<p>Single Stage Compressor Test Unit The unit should be capable to</p> <ul style="list-style-type: none"> • Measurement of intake and delivery pressure • Measurement of air flow rate. • Measurement of all relevant system temperatures • Determination of the volumetric and isothermal efficiency. • Measurement of drive power and electric motor shaft power. <p>A bench mounted, belt driven, single stage reciprocating air compressor with a motor dynamometer allowing measurement of the motor shaft power. An intake vessel reduces intake air pulsations and a high pressure air receiver is connected to the compressor discharge. Intake and discharge air pressures are measured together with the air flow rate, motor drive speed and torque.</p> <p>Integral duplex thermocouples record all relevant system temperatures and are connected to a multi-way selector switch and digital temperature indicator.</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	01		
	Total Cost C&F			

Note:

- If a bidder submits bids on behalf of more than one Manufacturer, unless each such bid is accompanied by a separate Bid Form for each bid, and a bid security 2% of total quoted amount, when required, for each bid, and authorization from the respective Manufacturer, all such bids will be rejected as nonresponsive. in case of discrepancy between unit price and total price, the unit price shall prevail.
- Installation CDs and lab manual must be provided by bidder/supplier/authorize manufacturer at free of cost.

Schedule of Requirements

THERMODYNAMICS LABORATORY- CHEMICAL ENGINEERING DEPARTMENT

- Free of cost training shall be provided by the supplier/bidder.

According to SPP rules 2010 (amended in 2013) of Rule 42:

For the purpose of comparison of bids quoted in different currencies, price shall be converted into a PKR. The rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids, as notified by the State Bank of Pakistan;

SCHEDULE OF REQUIREMENTS
FLUID MECHANICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT

S.No	Description	Quantity	Unit Price C&F	Total Price C&F
1	<p>Basic Hydraulic Bench The basic hydraulic bench should be design as a portable and self-contained service unit. The bench should be constructed from light weight corrosion resistant glass reinforced plastic & the hydraulic bench must have side channel (LOW FLOW VOLUMETRIC TANK) to support the accessory on test. The hydraulic bench should be single moulded, to avoid any possible leakage for a long time. ABB Power Protection against all Electric hazards. The Hydraulic Bench should be equipped with U-Tube Manometer for High flow volumetric tank to continuous measurement of flow Discharge. Computer Aided Learning Software for Hydraulic Benches</p> <p>Technical Specification :- Pump : Centrifugal Type, Max. Head 21m H₂O, Max. flow 1.35L/S Motor rating : 0.36kW at least Sump tank capacity : 200-250Liters High flow volumetric tank:30-40Liters Low flow volumetric tank: 6Liters</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	06		
2	<p>Flow Over Weirs The service unit should be capable to * Determination the characteristics of flow over a notch rectangular * Demonstrating the characteristics of flow over a veenotch * Determining the coefficient of discharge</p> <p>Technical Specification :- Overall dimensions of weir plates : Height 160mm, Width 230mm, Thickness 4mm. Dimension of rectangular notch : Height 82mm, Width 30mm, Angle of v- notch weir : 90o inclusive Hook's and point gauge range : Accuracy 0.1mm</p> <p>Air Compressor to provide the air at 900kN/m² (9 Bar Gauge) at up to 8g/s (400 litre/min free air)</p> <p>Software The equipment must be accompanied educational Software, PC and all</p>	01		

SCHEDULE OF REQUIREMENTS

FLUID MECHANICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT

	<p>standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement..</p>			
3	<p>Bernoulli's Theorem Demonstration The unit should be capable to</p> <ul style="list-style-type: none"> * Demonstrating Bernoulli's Theorem and its limitations * Directly measuring the static and total head distribution along a venturi tube. * Determining the meter coefficient at various flow rates <p>Technical Specification :- Manometer range : 0 to 300mm Number of manometer tubes : 8 min. Throat diameter : 10.0mm, Upstream diameter : 25.0mm Upstream taper : 14o, Downstream taper : 21o Note : To be used with F1-10-A for operation.</p> <p>Educational Software The equipment must be accompanied educational Software, PC and all standard accessories</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p>	01		
4	<p>Orifice Discharge The unit should be capable to</p> <ul style="list-style-type: none"> * Determining the contraction and velocity coefficients * Calculating the discharge coefficient <p>Technical Specification :- Standard orifice : Sharp-edged 30mm diameter Max. head : 365mm Traverse mechanism : Lead screw with adjusting nut calibrated 0.1mm per division</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p>	02		

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	<p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>			
5	<p>Osborne Reynold's Demonstration The unit should be capable to</p> <ul style="list-style-type: none"> * Reproducing the classic experiments conducted by professor Osborne Reynolds concerning fluid flow condition. * Observing the laminar, transitional, turbulent flow & velocity profile. <p>Technical Specification :- Test pipe diameter : 10mm Length of test pipe : 700mm Dye reservoir capacity : 0.45 liters</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	01		
6	<p>Flow Meter Demonstration (Venturi Meter) The unit should be capable to</p> <ul style="list-style-type: none"> * Directly comparing flow measurement using a venturi, meter, variable area meter and orifice plate * Calibrating each flow meter using the volumetric measuring tank of the bench * Comparing pressure drops across each device <p>Technical Specification :- Manometer range : 0 to 440mm Number of manometer tubes : 8 Orifice plate diameter : 20mm Variable area meter : 2 to 20 Liters/Min Venturi dimensions : - Throat diameter : 15mm - Upstream pipe diameter : 31.75mm - Upstream taper : 21o Inclusive - Downstream taper : 14o Inclusive</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data</p>	01		

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FLUID MECHANICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT

	<p>acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>			
7	<p>Energy losses in bends The unit should be capable to</p> <ul style="list-style-type: none"> * Measuring the losses in the devices related to flow rate and calculating loss coefficients related to velocity head * Comparing the pressure drop across each device <p>Technical Specification :- Pipe diameter : 19.48mm Differential pressure gauge : 0 to 1.3.5bar Enlargement diameter : 26.2mm Contraction diameter : 19.48mm Fitting : 45oC mitre, elbow,short bend,large band,enlargement,contraction Manometer range : 0 to 440mm Number of manometer tubes :12 Differential manometer : 6</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	01		
8	<p>Series / Parallel Pumps The unit should be capable to determining the head/flow rate characteristics of:</p> <ul style="list-style-type: none"> * A single centrifugal pump at a single speed * Two similar pumps operating in a parallel configuration at the same speed * Two similar pumps operating in a series configuration at the same speed 	01		

SCHEDULE OF REQUIREMENTS
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	<p>Technical Specification :- Pump:centrifugal type : max.head 21m H2O, max.flow 1.35 litres/sec Motor rating :0.36kW Pressure gauge range :0 to 45m H2O Compound gauge range : -10 to +45m H2O</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>			
<p style="text-align: center;">9</p>	<p>Centrifugal Pump Characteristics The unit should be capable to determining the relationship between head, discharge, speed,power and efficiency for a centrifugal pump at various speeds * Determining the head/flow rate characteristics of two similar pumps operating in either parallel or series configuration at the same speed</p> <p>Technical Specification :- Pump : centrifugal type : max.head 21.0m H2O max.flow rate 1.35 l/sec Motor : 0.36kW, Speed controller : PWM inverter Speed range : 0 to 1500 rpm Pressure gauge : 0 to 60 m H2O Compound gauge : -10 to 32m H2O</p> <p>Software The equipment must be accompanied educational Software, PC and all standard accessories necessary for computerized data acquisition/upgrade. It should also allow all relevant system parameters to be automatically recorded on a PC.</p> <p>Manual: The equipment must be accompanied by manual containing information regarding Services requirements, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	<p style="text-align: center;">01</p>		

SCHEDULE OF REQUIREMENTS
FLUID MECHANICS LABORATORY, CHEMICAL ENGINEERING DEPARTMENT

	TOTAL COST C&F	
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Note:

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- Installation CDs and lab manual must be provided by bidder/supplier/authorize manufacturer at free of cost.
- Free of cost training shall be provided by the supplier/bidder.

According to SPP rules 2010 (amended in 2013) of Rule 42:

For the purpose of comparison of bids quoted in different currencies, price shall be converted into a PKR. The rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids, as notified by the State Bank of Pakistan;

SCHEDULE OF REQUIREMENTS

SEMINAR LIBRARY- CHEMICAL ENGINEERING DEPARTMENT

Sr. No.	Description	Quantity	Unit Cost C&F	Total Cost C&F
1	<p>Annual Book of ASTM Standards (Publish Date 2015) This 82 volume set includes all volumes in each of the 15 sections of the Annual Book of ASTM Standards, as well as the Index. The complete set to provides all of ASTM's 12,000+ standards addressing areas such as metals, petroleum, construction, rubber, the environment and more.</p>	One complete set		
2	<p>Laser Printer (Color) Specification: Print Speed Black: Normal: Up To 21 Ppm Print Speed Color: Normal: Up To 21 Ppm Print Quality (Black and Color): Up To 600 X 600 Dpi Duty Cycle (Monthly, A4): Up To 40,000 Pages Processor Speed: 600 MHz Memory, Standard: 128 MB Maximum Memory: 384 MB Connectivity: 1 Hi-Speed USB 2.0 Port, 1 Fast Ethernet 10/100Base-TX Network Port, 1 WiFi 802.11 b/g/n Media Sizes Supported: Tray 1: Letter, Legal, Executive, 8.5x13in, 3x5in, 4x6in, 5x8in, Envelopes (No 10, Monarch); Tray 2, optional Tray 3: Letter, Legal, Executive, 8.5x13in, 4x6in, 5x8in, envelopes (No 10, Monarch) Media Sizes, Custom: Tray 1:3x5 to 8.5x14in; Tray 2, optional Tray 3:3.94x5.83 to 8.5x14in Paper Handling Input, Standard: • 50-Sheet Multipurpose Tray • 250-Sheet Input Tray 2 Paper Handling Input, Optional: Optional 250-Sheet Tray Paper Handling Output, Standard: 150-Sheet Output Bin Output Capacity: Up To 150 Sheets Duplex Printing: Automatic (Standard) (or Advanced / Updated Version)</p>	01		
3	<p>Photocopier Machine General Print Resolution Maximum: 600 x 600 dpi (5 bit), 600 x 1,200 dpi (1 bit)</p>	01		

SCHEDULE OF REQUIREMENTS

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Page Description Languages Supported Systems	XPS, PCL6, PCL5 and PostScript 3 compatible Windows 7/Vista/XP/Server 2008/Server 2003 (32/64 bit), Windows Server 2008 R2 (64 bit), Mac OS X, Linux/Unix, Novel NetWare (NDPS), Citrix, SAP, AS/400			
Print Functions	Universal Driver, Driver templates, Driver plug-ins, Hold print, Print from USB, Tandem printing			
Scan				
Resolution	Maximum: 600 x 600 dpi			
Scan Speed	Up to 50 ipm (300 dpi)			
Scan Modes	Auto Colour (ACS), Colour, Grey scale, B&W			
Copy				
Resolution	Scanning: 600 x 600 dpi			
First copy output time	Approximately 8.2 seconds			
Zoom	25-400% (platen glass), 25-200% (RADF optional)			
Copy Modes	Text, Text/Photo, Photo, Printed Image, Map			
Fax				
Communication	Super G3, G3 (optional 2nd line), Internet Fax T.37			
Transmission Speed	Approximately 3 seconds per page			
Compression	JBIG, MMR, MR, MH			
TOTAL COST C&F				

Note:

- If a bidder submits bids on behalf of more than one Manufacturer, unless each such bid is accompanied by a separate Bid Form for each bid, and a bid security 2% of total quoted amount, when required, for each bid, and authorization from the respective Manufacturer, all such bids will be rejected as nonresponsive. in case of discrepancy between unit price and total price, the unit price shall prevail.
- Installation CDs and lab manual must be provided by bidder/supplier/authorize manufacturer at free of cost.
- Free of cost training shall be provided by the supplier/bidder.

SCHEDULE OF REQUIREMENTS

SEMINAR LIBRARY- CHEMICAL ENGINEERING DEPARTMENT

According to SPP rules 2010 (amended in 2013) of Rule 42:

For the purpose of comparison of bids quoted in different currencies, price shall be converted into a PKR. The rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids, as notified by the State Bank of Pakistan;

SCHEDULE OF REQUIREMENTS
COMPUTER SIMULATION AND MODELING LABORATORY-CHEMICAL ENGINEERING
DEPARTMENT

Sr. No.	Description	Quantity	Unit Price C&F	Total Cost C&F
01	<p>CHEMCAD Process Simulation Suite (Latest VERSION) 100 users license on a single LAN network the following modules -CHEMCAD STEADY STATE -CHEMCAD THERM -CHEMCAD BATCH -CHEMCAD DYNAMICS 5 years license with 5 years Free updates, maintenance and support.</p>	100 users license		
02	<p>Computer: Core i7 (Complete Branded Set) Specification: Motherboard: Chipset - Intel Q85 Express (or latest) Processor: Intel Core i7, 4790 with Intel HD Graphics 4600 (3.6 GHz, 8 MB cache, 4 cores) (or latest) Memory: 4 GB 1600 MHz DDR3 SDRAM (1 x 4 GB) Hard Disk: 500 GB 7200 rpm SATA Optical Drive: Slim SATA SuperMulti DVD writer Graphics: Intel HD Graphics 4600 LAN: Intel I217LM Gigabit Network Connection Mouse: 3D Mouse Wheeler Keyboard: Multimedia Keyboard Casing: Front USB port with Intel approved TX Casing with Locking System Monitor: Flat Screen 18.5" LED Monitor (or Advanced / Updated Version) Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	23		

SCHEDULE OF REQUIREMENTS
COMPUTER SIMULATION AND MODELING LABORATORY-CHEMICAL ENGINEERING
DEPARTMENT

03	<p>AspenTech software (under AspenTech University Program) 1 network license with 150 simultaneous users for 5 years</p> <p>AspenTech's University Program offers universities an integrated suite of products that allow professors to teach students how to optimize engineering. This university packages addresses inefficiencies end-to-end throughout the plant, resulting in millions of dollars in cost savings and increased customer satisfaction.</p>	150 users		
04	<p>Electronic Podium</p> <p>Services and parts Agreement All standard accessories and spares for three years normal operation together with a full three year warranty should be the part of standard agreement.</p>	01		

Note:

- If a bidder submits bids on behalf of more than one Manufacturer, unless each such bid is accompanied by a separate Bid Form for each bid, and a bid security 2% of total quoted amount, when required, for each bid, and authorization from the respective Manufacturer, all such bids will be rejected as nonresponsive. in case of discrepancy between unit price and total price, the unit price shall prevail.
- Installation CDs and lab manual must be provided by bidder/supplier/authorize manufacturer at free of cost.
- Free of cost training shall be provided by the supplier/bidder.

According to SPP rules 2010 (amended in 2013) of Rule 42:

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