sf** Date: 21-12-2016 **Technical & Financial Proposals Evaluation Report** Supply of Pay Pak Debit Cards Name of Procuring Agency I. Sindh Bank Ltd. 2 Tender Reference No. SNDB/COK/ADMIN/TD/745/2016 Tender Description 3 Supply of Pay Pak Debit Cards 4 Method of Procurement Single Stage One Envelop Bidding Procedure 5 SPPRA S. No.30703 **Tender Published** 6 Total Bid Documents Sold 017 Total Bids Received 018 Technical Bid Opening Date 20/12/2016 9 Financial Bid Opening Date 20/12/2016 10 No of Bid Technically Qualified 01 Π Bid(s) Rejected 0 Name of Company Cost Offered by Bidder **Ranking in Terms** Comparison with Reason for Remarks of Cost Estimated Cost Acceptance/ (Rs. 500.000/-) Rejection 2 3 4 6 1 M/s Infotel Pakistan Rs.347,500/-Rs.152.500/-Accepted Being Rule 48 has @ 34.75 For 10,000 Qualified Bidder below with the estimated the Qualified been complied Debit Cards Bidder cost

Note: M/s. Infotel Pakistan is selected for the Supply of Pay Pak Debit Cards to Sindh Bank Limited being the Qualified Bidder.

Members - Procurement Committee

(Anis Iqbal) Head of I. T. Division

S.

No.

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(Saeed Jamal Tarig) Chief Financial Officer

(Syed Muhammad Ageel) Chief Manager (IDBL) Karachi

Signature 51:6n9 1 S



FINANCIAL PROPOSAL

PRICE SCHEDULE

(Applicable for the year 2016)

Tender ID: SNDB/COK/ADMIN/TD/745/2016 – Supply of PayPak Debit Cards Name of Bidder M/s InfoTel Pakistan (Pvt.) Ltd.

No	Item	Unit Cost	Quantity	Total Amount
01	PayPak Debit Cards (Classic Card)	PKR: 34.75/-	5,000	PKR 173,750/-
02	PayPak Debit Cards (Classic Card)	PKR: 34.75/-	5,000	PKR 173,750/-
	Total Ar	nount Inclusive of 17	% GST in Pak. Rs.	PKR 347,500/-

Terms & Conditions – EMV Card Plastic Procurement:

Quotation Validity:	Prices quoted are Ex-Karachi (Sindh Bank Production -Karachi). The Pak. Rs. quoted prices are inclusive of all taxes and valid for 90 days from the date of this response
Lead time:	Electronic Proof within 2-3 days. Sample Card – within 2-3 weeks after the Electronic proof approval from 1-Link Mass Card Delivery: After the sample card approval 2-3 weeks.
Shipment:	Single Shipment
Payment terms:	100% on delivery. 10% will be charged against the cancellation of Purchase order, after one-week cancellation / amendments will not be acceptable.
Quote valid in:	The above quoted prices will be change in case of any additional taxes imposed by the government.

سم SIGNATURE MEMBERS PC-IT Head - IT Div, Lus Member-IDBL,_ Date:___

MII Infotel Pakistan

Eligibility Criteria for Paypak Debit, Cards

S.No.	Requisite	Evidence Attached	Compliant	ce / Proof
Ţ	Minimum 03 Years in business in the relevant field	Letter of Incorporation / Company Registration Letter / Letter or Declaration of Commencement of Business / NTN. (attach as Annexure "A")	Ves	No
2	Turn Over in last 3 Years should be at least 20 Million	Audit Report / Tax Return (attach as Annexure "B")	1 Ves	No
3)	Registration with Income Tax and Sales Tax	NTN & GST Certificates (attach as Annexure "C")	Ves	No
ধ	Office in Karachi is mandatory.	Complete address along with PTCL landline numbers (attach as Annexure "D")	Ves	No
5	Company should provide Valid Manufacturing Authorization Certificate for Manufacturing of DEBIT CARDS	Certificates from Manufacturer & Provide at least 5 Sample DEB/T Cards (attach as Annexure "E")	Ves	No
6	The DEBIT CARD manufacturing facility must be in compliance with PayPak /1 Link and EMV Standards	Attach Certificates (attach as Annexure "F")	V Yes	No
7	Manufacturer of DEBIT CARDS should be ISO Certified	Attach Certificate (attach as Annexure-"G")	Vies	No
8	Company must provide list of clients for Supply of DEBIT CARDS in Pakistan	Attach Purchase Order (attach as Annexure "H")	Yes	No
9	Debit Card must be produced by Paypak approved debit card manufacturer	Paypak Certificates from Manufacturer (attach as Annexure "[")	Yes	No
10	Company must be Authorized from 1 Link for Manufacture Paypak Debit Cards	Attach Authorized Letter (affach as Annexure "J")	Yes	No
	Manufacture Paypak Debit Cards		_	Yes

ELIGIBILITY CRITERIA NOTE

- There can be subsequent clarification to this specific tender for which it is advised to keep yourself abreast with the notification being hoisted on Sindh Bank Ltd & SPPRA websites regularly;
- Attachment of relevant evidence in eligibility criteria is mandatory. In case of non-provision of evidence in any of the requisite, bidder will be disqualified.

MANDATORY

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- 1. Attachment of Affidavit (specimen attached as Annexure "H") on stamp paper from the owner of the company.
- Writing of tender reference as given in the NIT on the Envelop, carrying tender document is must or the bank will not be responsible if the documents are not received by the Procurement Committee on time.

DISQUALIFICATION

- The bidder will be considered disqualified during technical/financial evaluation process or after award contract if:
- 1. On black list of SPPRA & Sindh Bank Ltd.
- 2. Issued with two (2) warning letters/emails by the Sindh Bank Ltd in the past to the bidder for unsatisfactory performances
- Alternate bid is offered.
- Non Attachment of Annexure "A" (With Financial Proposal) & Annexure "B" (With Financial Proposal if Bank Guarantee is going to be submitted as Bid Security).
- 5. The qualified bidder sublets the contract in any form/stage to any other agency.
- 5. The tender is deposited without Tender Fee
- 7. If during verification process of the cliental list the response by any of the bank is un satisfactory on account of previous performance.

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Ahsar AVP/Operations Di

Dilshad Husain Khan SVP/Finance Division

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	s	M. Saeed Khan VP/LT. Division
SIGNATURE		
Head - Fin Div	611	hu~{
Head - IT Div	<u> </u>	
Member-IDBL	<u> </u>	
Date:		



21-12-2016

Subject:

Certificate Compliance of SPPRA Rule 48 TENDER REF NO. SNDB/ADMIN/TD/745/2016

This is to certify that as only one bid was received against the tender, so Rule 48 has been complied with detail as follows.

Current Market Price	Current Tender Price
Rs.374,400/-	Rs.347,500/-
@ 37.44 for	@ 34.75 for
10,000 Debit Cards	10,000 Debit Cards

Maril

M. Rashid Memon VP/I.T. Division

Signature – Procurement Committee Members

Head of IT

Chief Financial Officer

Chief Manager (IDBL)

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oberthur TECHNOLOGIES

Quotation No: KHI/OBERTHUR/MKT/2016/00053

QUOTATION Customer Org. Sindh Bank Ltd. Date 16-11-2016 Name Mr. Rashid Memon Plot No. F/101, Block 7, First Floor, Scheme 5, Block 7, Ref Email Address Clifton, Karachi Muhammad Faroog Rep Phone 0344-2461169 FOR Prices Karachi

M.O.Qty	Description	Unit Price PKR Excl. GST	Total (PKR)
50,000	PayPak Debit Card	24.00	1,200,000.00
	760µ PVC card confirming PayPak standard Size : 85 725 x 53.975 corner radius 3.175 Confirming ISO-7811 standard		
1	4+4 color offset printing		
	3 tracks HiCo 27500e Magnetic Strip		
4	Signature Panel confirming PayPak Standard		
10,000	PayPak Debit Card	32.00	320,000.00 + 54, 4===
	Same as Above	દુ ચુત્ર અપર	3 min, 2007
2,000	PayPak Debit Card	56.00	112,000.00
	Same as Above		
			- 영화 이 것 같아.
	NOTE: Sampling cost is 500\$ (if physical samples required before bulk production).	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Lead time for sampling is 3 to 4 weeks post scheme approval		a second region
	4		
TERMS & C			

TERMS & CONDITIONS:

- 1. Art work to be provided by the customer in editable format
- 2. Delivery time will be 4 weeks post scheme approval.
- 3 10% +/- tolerance on quality is allowed.
 - Partial deliveries will be charged additionally to the customer on actual.
 - The prices are subject to change with any PKR variation to US Dollar.
 - This guotation is based on today's inter bank exchange rate of \$1 = PKR 105
- 6. Above quoted price is valid for single design and for single shipment.
- 7. Above quote price is exclusive of 17% GST.
- 8. Payment would be required on delivery.
- 9 . Quotation is valid for two weeks.
- 10. Incoterms : DDP Karachi

	Accepted By
Name:	
Stamp:	

Muhammad Faroog

Assistant Manager Customer Services (Oberthur Technologies Pakistan (Pvt.) Ltd. Plot # 189 | Sector 23 | Korangi Industrial Area, Karachi Pakistan

T: +92 21 35064016-17 | F: +92 21 35064078 | M: +92 301 8227848

m.faroog@oberthur.com

www.oberthur.com



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OPENING OF BID

FINANCIAL PROPOSALS

Syphy of Pay Pak Debit Cards Date: 20-12-2016 FOR SELECTION OF

	S.No	Company Name	Total Bid Offered		Signature of Company	Remarks
			Announced	Evaluated	Representative	
			RS		$\cap \mathcal{A}$	
	01	NFSTEL	RS 347,520		c-free	
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Signature – Procurement Committee Members for IT Infrastructure

Head of IT

Chief Financial Officer

Chief Manager (IDBL)

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MINUTES OF THE OPENING OF THE TENDER (TECHNICAL/FINANCIAL PHASE)

TYPE OF PROCUREMENT	ADMIN / IT / CONSULTA				
TENDER NAME	Supply of 1	Pay Pet De	bet Carbo		
TYPE OF TENDER	SINGLE STAGE-ONE ENVELOPE	/ SINGLE STAGE-TWO ENVE	ELOPE / TWO STAGE /TWO	STAGE-TWO ENVELOPE	
OPENING DATE					
OPENING TIME					
ATTENDANCE (MEMBER PC)	HEAD OF I.T.Division				
	CFO				
	Chief Manager, IDBL				
4					
	NAME		FIRM		
ATTENDANCE (REPS. OF BIDDERS)	FAISAL	1	NFSTER	-	
	/		1	-	

TOTAL BIDS ACCEPTED FOR EVALUATION

TOTAL BIDS REJECTED

REMARKS

SIGNATURE MRCal 20/12/2016 DATE

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NIL

Members - Procurement CommitteeSignature Head of I.T 5610 Chief Financial Office Chief Manager, IDBL



SNDB/COK/ADMIN/TD/745/2016 Dated: 30/01/2017

From	IT Division
То	Deputy Director, SPPRA

Subject: Submission – RULE 50 COMPLIANCE Supply of Pay Pak Debit Cards

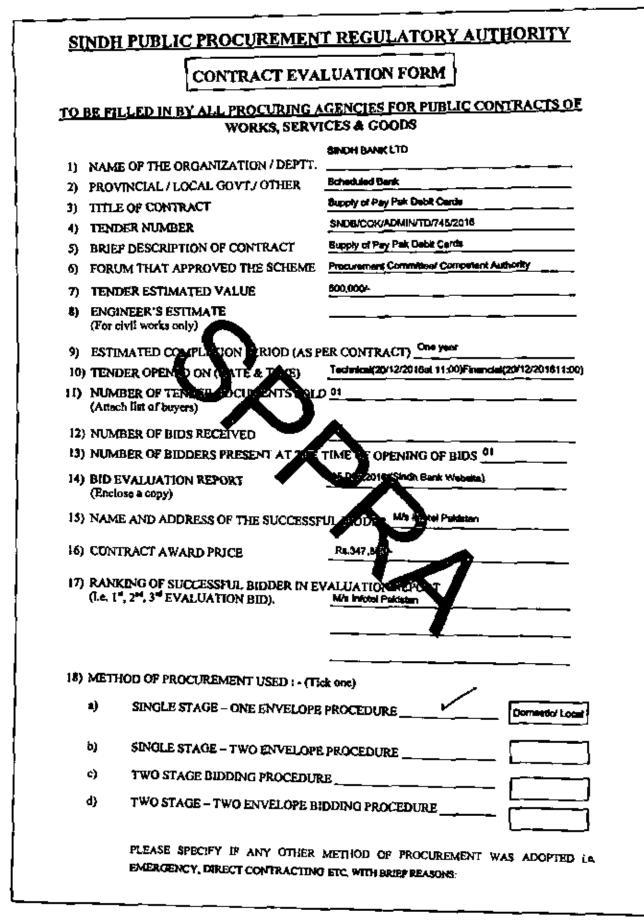
Dear Sir,

Enclosed please find following documents for submission to SPPRA for Rule 50 Compliance.

S.No.	Documents Attached	SPPRA Sr.#
-	1. Contract Evaluation Form	
01	2. Letter of Award	
	3. Agreement	30703
1	4. Scope of Work	
1	5. BER	1
[6. Financial Proposal	
	7. Minutes of Bid	
	8. Email Copy	

Kindly confirm once it is get holsted on your respective websites and subsequently please release their respective IDs for completion of tender process.

Reltard Hina Awan Procureme



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		Competent Authority	
9) A	PPROVING AUTHORITY FOR AWARD OF CO	INTRACT	
V) (0	WHETHER THE PROCUREMENT WAS INCLUI	DED IN ANNUAL PROCUREMENT PLAN?	
21) /	ADVERTISEMENT':		
i) SPPRA Website	Yes SPPRAS.NO.30703	
	(If yes, give date and SPPRA Identification	No.) No	
i	i) News Papers (If yes, give na <u>rous of</u> newspupers and date	s) Ya	
	(II yes, give man and its interested and	No .	
22) 1	NATURE OF CONTRACT	□ Denetity ↓ Int.	
23)	WHETHER QUALIFICATION CRATER	(ENTS)	
	(If yes, enclose a copy)	Yes / No	
	WHETHER BID EVALUATION CRITERIA		
	WAS INCLUDED IN BIDDING / TENDER DOC (If yes, enclose a copy)		IJ
	WHETHER APPROVAL OF COMPETENT AUT METHOD OTHER THAN OPEN COMPETITIVE		T TI
		Yes No	<u>í</u>
26)	WAS BED SECURITY OBTAINED FROM ALL 1	THE BIDDERS?	
27)	WHETHER THE SUCCESSFUL BID WAS LOW BID / BEST EVALUATED BID (in case of Consu	EST EVALUATED Yes V No	
	WHETHER THE SUCCESSFUL BIDDER WAS		r 1
, (COMPLIANT?		L[
29)	WHETHER NAMES OF THE BIDDERS AND T	HEIR OUGTED PRICES WERE READ OU	ጉ ልተ
	THE TIME OF OPENING OF BIDS?	Yes / No	
	WHETHER EVALUATION REPORT GIVEN CONTRACT?	TO BIDDERS BEFORE THE AWARD) OF
(Attach copy of the bid evaluation report)	Yes / No	

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Authorized Officer IA: KASTRID Net Presis I,T. Division SINDITBANK	lent	
Signature & Official Stamp of M. R. L.I. Authorized Officer	MO	 N
39) Date of Award of Contract, 27-01-2017	No	< <u> </u>
38) SPECIAL CONDITIONS, IF ANY (If yes, give Brief Description)	Yes	I
37) WERE PROPER SAFEGUARDS PROVIDED ON MUT THE CONTRACT (BANK GUARANTEE ETC.)?	LIZAT	Yes VANCE PAYMENT IN
(If yes, enclose a copy)		Yes No 7
36) WAS A VISIT MADE BY ANY OFFICER/OFFICIAL OF SUPPLIER'S PREMISES IN CONNECTION WITH THE R BE ASCERTAINED REGARDING FINANCING OF ANT	10.5	REMENT? IF SO, DETAILS TO
35) WAS IT ASSURED BY THE PROCURING ARTINCY T BLACK LISTED?	ГНАТ '	THE SELECTED FIRM 13 NOT
	No	No
34) DEVIATION FROM QUALIFICATION CRITERIA (If yes, give detailed reasons.)	Yes	
$\mathbf{\cap}$	No	No
33) WAS THE EXTENSION MADE IN RESPONSE TIME? (If yes, give reasons)	Yes	
	No	No
(If yes, give details)	Yes	
32) ANY DEVIATION FROM SPECIFICATIONS GIVEN IN T	THE TE	NDER NOTICE / DOCUMENTS
	No	No
31) ANY COMPLAINTS RECEIVED (If yes, result thereof)	Yes	

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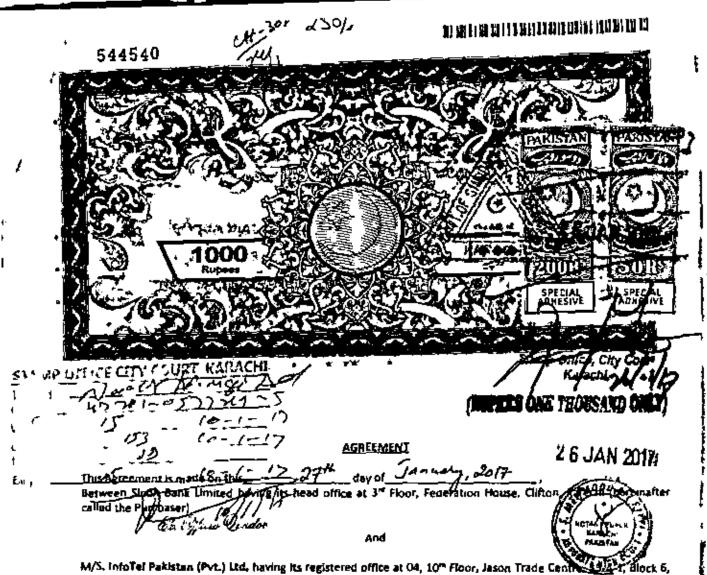
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<u>SPPRA, Block. No.8, Sindh Secretariat No.4-A, Court Road, Karachi</u> Tele: 021-9205356; 021-9205369 & Fax: 021-9206291



M/S. InfoTel Pakistan (Pvt.) Ltd. having its registered office at 04, 10^m Floor, Jason Trade Centre<u>s 374</u>-1; Block (PECHS, Shahrah-e-Faisal, Kazachi – 75400 (Here in after referred as Vendor).

WHEREAS the Vendor is the dealer/supplier/manufacturer of <u>Magstripe Paygak</u> (Debit cards).

AND WHEREAS the Bank is inclined to purchase the Debit cards as detailed below on the terms and conditions laid down hereinafter for the supply of Debit cards for the BANK of total sum Amounting <u>Rs. 347.500/-</u>.

Detall of Eavloynent is as follows,

 Product	Unit Price PKR	Quantity	Total Price (PKR)
PayPak Debit Cards (Classic Card)	PKR. 34.75/	5,000	PKR 173,750/-
PayPak Debit Cards (Gold Card)	PKR: 34 75/-	5,000	PKR 173,750/-

Terms & Conditions;

1. The vendor will provide the performance security in the form acceptable to the Bank, for the 10% of the order value for the period of one year from the date of Submission of performance security. In case Vendor does not fulfill its commitments the bank reserves the right to enforce the performance security. All terms & condition of the tender documents are part of this agreement.

2. The vendor shall supply of Debit cards as per specifications and upon the recommendations of the Technical / Standardized Committee appointed by the Bank within 8 weeks from the date of receipt of Purchase Order

3. The bank will have the option to enforce the performance bond on happening of any one or all the following events.

a. If the vendor fails to deliver the Debit cards as per agreed Schedule.

b, if the vendor fails to get the Debit cards inspected by the Technical Committee

- up addition the Bank will have the option to cancel the order and offer the same to the next lowest bidder.
 - 4. The vendor also undertakes to bear all kind of taxes i.e. Stamp duty/ Services Charges/Professional Tax / Sales Tax involce, income Tax, 252 / Octrol Tax (if any) and all other incidental charges etc, up to the place of destination.
- S. The Bank reserves the right to Test/Check the Debit Cards to ensure that it is provided as per specification in the tender document. For any discrepancies, the Bank reserve the right to forfelt full security deposit/ cards the order for the supply and bring the vendor on black list of the Bank forever. The decision of the Bank shall be final. and binding upon the vendor.

6. In the event of the default on the part of the vendor, in the performance of any condition of the contract and if such default is not remedied within 3 days it shall be lawful for the Bank to enforces full or part of the Earnest money / Performance Security and or caccel the whole part of the supply order with vendor and the decision of the the Bank will be the final and legally binding on the vendor.

7. Proportionete payments against supply of equipment will be made within Thirty days from the equipment delivery date.

64 X E. In case of any dispute at any point the matter will be settled amicably. If the parties do not j the dispute will be referred to the Complaint Redressal Committee for Dispute Resolution.

9. Delivery will be made by the pendor at head office of Sindh Bank Ltd.

10. In case of failure to supply the regulate within 7 working days after the delivery time, as clause no 2 of this agreeme Rs.1,000/- per day may be charged.

11. The term of this agreement shall be for a period of Two Years, commencing from the date of signing of this agraement,

In witnesses hereunder both the parties have set their hands on the day and year above first mentioned." Termination of Ameganant by the Banks a

- if the Supplier, in the apgment of the Bank has engaged in compt or fraudulent practices in competing for or in executing the appreement." If, as the result of Force Majeure, the Supplier is unable to perform a material portion of the Services for a
- period of not less than birty (30) days; and
- If the Bank, in its sole discretion and for any reason whatsoever, decided to terminate this Agreement.
- If issued two (2) warning letter/emails by Sindh Bank Ltd for its upsatisfactory current performance by the Sinds Bank Ltd to the bidder." Support Escalation Matrix:

For timely addressing of complaints given support ex-

		ALLONG THE OF A DE ALLINE OVER THE	æ-	
LÉVELA	ļ •,	Name/Decknolog		1
First complete if the cell is no specified response (24 hours)	time*	Mani Josen - What delaustness	┥	1
LEVEL-2		(Regional Head/Manager/GM)	+	
Second complain, if the call is "specified Response Time" and the problem still unresolved eve	not attended / or >	Salkern Ahmed + Manager Card	+	
At Level J (48 hours)		p302 8240671		
LEVEL-3		Rinz Siddiqué / CEO (CEO of the firm)		
Third complete, if the cell is a "Specified Response Time" and	not attended for	34320008 - 11		2
the problem still unresolved ever st Level-2 [<u> </u>	0300 8230293	- AN	OTAL
Not	a: Ensure that no col	unn above is left blank	CV14)}
- len and a second - I	a standard and			- 15

In witnesses hereunder both the parties have set their hands on the day and year above first mentioned.

Sindh Bank Limited

Registered Address:

InfoTel Pakistan (Pvt.) Ltd.

Registered Address: 4, 10th Floor, Jason Trade Center, 39-A-1, PECHS, Block 6, Karachi

Name: _____

AC. Signature: Title: _ ANIS IOBAL EV? / Head of information Technology Oate:_ SINDH BANK LIMITED Head Office, Karachi

Name:_______

Name: M. SAEED ICHAN Signature:

Title: SVP(IT

Witness:

Name: ____Syed Adnan Alf

Signature;

Date:

*

Title: Senior Specialist, Technical Support & Services

Date: _ 194 2 4

ATTESTED S BEHINGODALI RIZVI ADVOCATE RIGH COURT NOTARY PUBLIC KARACHI-PAXISTAN

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					De	de: 21-12-2016	<u>. </u>
			Technical & Fin	ancial Pronosah	Evaluation Report		
- •			Supel	v of Pay Pak Det	A Carda		
	1 1	Name o	Procuring Agency	Sindh Bank Ltd.	·		
	Z Tender Reference No.		SND8/COK/AI	MIN/TD/745/2016	.		
	3	3 Tender Description		Supply of Pay Pak Debh Carda Single Singe One Envelop Bidding Procedure			
	4 Mathod of Processoration		ef Procurances				
	5	Tender	Published	SPPRA S. No.3	0703		
	6	Total 9	ld Documents Sold	01			
	7	Total B	lida Reserved	01			
		Techni	cal Bid Opening Date	20/12/2016			
	9	Finenc	rial Bid Opening Date	20/12/2016			
	10	No of	Bid Technically Quahfied	1 01			
	. 11	Bid(s)	Rejected	0			
1. 154.	Name of Co		Cast Offered by Bilder	Ranking in Terms of Cost	Comparison with Estimated Cost (Rs, 502,000/-)	Remon for Acceptance Rejection	Remarks
•	1		2	3	4	5	6
	M/s infotel P	akintee	R. 347,500- 14.75 Par 10,000 Debit Cards	Quellifical Bidder	Rs.152,500/- below with the estimated cost	Accepted Boing the Qualified Bidder	Rute 45 kas bera campila

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Note: M/s. Inform Pathtam is selected for the Supply of Pay Pak Debit Cards to Sindh Back Limited being the Qualified Bidder.

Musicar - Pressurement Committee

(Anis Iqbal) Head of L.T. Division

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(Sased Jamei Tariq) Chief Financial Officer

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(Syod Mahapmad Ageel) Chief Managar (IDBL) Karachi Steagurs <u>SICON</u> <u>SICON</u> <u>SICON</u>



FINANCIAL PROPOSAL PRICE SCHEDULE (Applicable for the year 2016)

Tender 10: SND8/COX/ADMSN/TD/745/2016 -- Supply of PayPak Debit Cards Name of Bidder M/s InfoTel Pakksan (Pvt.) Ud.

01 PayPak Debrt Cards PKR: 34.75/- 5,000 PKR 173,750, (Classic Card)	S.No.:	Item	Unit Cost	Quantity	Total Amount
(Cassic Card)				5,000	PKR 173,750/-
Total Amount inclusion of 17% GST in Pak, Rever 147, 500	02	(Cassic Card)		•	PKR 173,750/-
LOTS: NUMBER OF ALL AND AL		Total Ar	mount inclusive of 17	% GST in Pak. Rs.;	HUT 347,500/-

Terms & Condidens - IN/V Card Flattic Procurement;

Quotation Validityr	Prices quoted are Ex-Karachi (Sind): Bank Production -Karachi), The Pak-Rs. quoted prices are inclusive of all taxes and valid for SO days from the date of this principonse
Lend Cime:	Electronic Proof within 2-3 days. Sample Card — within 2-3 weeks after the Electronic proof approval from 1-Link Mass Card Delivery: After the sample card approval 2-3 weeks.
Shipment:	Single Shipment
Payment	100% on delivery.
terms:	1036 will be charged against the cancellation of Purchase order, after one-week cancellation / amontments will not be acceptable.
Caucta valid jn:	The above quoted prices will be change in case of any additional taxes imposed by the government,

b SIGNATURE MEMBERS PC-IT Head - IT Div, fear Henber-IDSL Date:__

MII Infald Pakistan

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Etgibility Criteria for Paynak Oublt, Cards

S.No.	Requisite	Evidence Attached	Compliant	a / Pres
 -	Musimum 03 Years in bestress in the selevace field	Letter of Incorporation / Company Registration Letter / Letter / Declaration of Compandement of Boutenss / MTM. (are that A manage "A")	4	Ne
2	Turn Over in last 3 Years should be at loss 20 Million	Audi Report / Tak Rowan (withing as Agameters "B")	1.00%	ite .
	Regionston with forome Tax and Sales Tax.	NTN & GST Cardinates	10 ¹⁴	Ne
	OfDee in Kerachi is wardalory	Complete address along with PTCL landline numbers (setack as Appenners "D")		Na
3	Company should provide Valid Manufacturing Amborization Certificate for Manufacturing of DEBIT CARDS	Certificating from Manifacturer & Provide 44 load 5 Sample DEBJT Cards (atlact an Americate "E")	TE .	2ta
6	The DEOLT CARD manufacturing Detility must be the complexion with Pay Pak / Link and EMV Standards	Ausch Certificates (attach ar Auserate "F")	Ym	51e
7	Manufacturer of DEBIT CARDS should be ISD Certified	Atusta Cottificate (attack as Anaesace "G")	L.K.	Na
6	Company auto provide list of clients for Supply of DEBIT CARDS to Polision	Anach Parchese Order (attach al Annesure "#")	4.	No
8	Dubit Card must be produced by Paypak approved (gibh card manufacturer	Payan Certification from Martifletuner	Ym	Na
10	Company must be Authorized from 1 Link for 	Adact Autorized Lener (atract as Alternora "J") (Int / Dispect(fed	Y	He

RESERVED CRICERIA NOTE

- There are be subsetivent derthanting to this specify lander for which it is advised to type envirable already with the Ŀ conficultion from a franched on Sinch Rank Ltd & SPANA, reduction regulation 1.
 - Attachment of relaying and ency in eligibility others is mandetary, in same if non-provision of sviden cash any of the requirite. bidder will be diffectived.

MANDATORY

- Attachment of Attalavit japacemen exacted as Annetwee "H") on stamp paper from the owner of the company. 1.
- We'ling of tender reference as given as the NIT on the Envelop, carrying tender docurrent, & much or pre back will not be temperature of the 2 demonstrate are necessed by the Precurement Converting on Stree.

DEDUALS CATION

- The bidder will be considered disputities during technical/finential evolution process or after some dispute at the
- Co black for al speak & their Beng Las, L
- intered with two (7) watering imparts/sequences by the lingh Bank Lig in the part to the bilder for traditionary performances
- . Alternate Weils attaced.
- Nell Asserbared of Angenese "A" (Web Pinancel Proposil) & Angenese "B" (1996) Federal Proposal R Bark Containing II going to be 4 submitted its Bid Security). The qualified bisider submits the contract in unviorm/stage to just other agency.
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- The leader is deposited webers Denser Fey 7.
- The leader is deposited website Denser For If define confidence process of the effects but the response for any of the back is on self-factory on account of previous performances

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Dilshad Tiusein Khan SVP/Finance Division

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And the second second

M. Saved Kinga SVIVLT Division SIGNATURE MEMBERS PC-IT Head - Fig Dly Head - 17 Ovy.__ n Member-IDBL._ Date:_

A 100 X 100 X



21-12-2016

Subject:

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<u>Certificate</u> <u>Compliance of SPPRA Rule 48</u> <u>TENDER REF NO. SNDB/ADMIN/TD/745/2016</u>

This is to certify that as only one bid was received against the tender, so Rule 48 has been complied with detail as follows.

Current Market Price	Current Tender Price	
Rs.374,400/-	Rs.347,500/-	
@ 37.44 for	@ 34.75 for	
10,000 Debit Cards	10,000 Debit Cards	

March

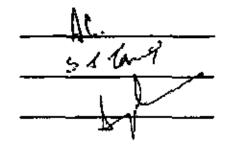
M. Rashid Memon VP/LT. Division

Signature -Procurement Committee Members

Head of IT

Chief Financial Officer

Chief Manager (IDBL)



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Question No. KHYOBERTHURGERT/2016/00053

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Address	Plot No. F/101, Block 7, First Floor,Scheme 5, Stock 7. Ciliton, Karachi	Rof Rep	Email Muhammad Faroog
Phone	0344-2481 (69	FOR Prices	Karach

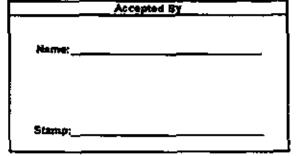
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80,000 PayPat: Oxfult Card 7004 PVC card confirming PayPatk standard Size; 65 725 x 51.975 corner radius 3 175 Ca 4+4 color officit printing 3 instan HCc 27500m Magnetic Seto		24.00	
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Assistant Manager Customer Services (Obertikur Technologies Pakietan (Pvt.) 135. Pict # 189 (Sector 23) Karengi Industrial Area, Kareon Pekatan T: +02 21 35084016-17 | F: +02 21 38064078 | +0 +92 301 8227848 n, incomposed and an

www.cbarthuf.com

SINDHBANK ندھ

OPENING OF BID

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FINANCIAL PROPOSALS

Syndy of Pay Pak Delot Cords Date: 20-12-206 FOR SELECTION OF

S.Mo	Company Name	Total Offer Announced	red	Signature of Company Representative	Remarks
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Signature -Procurement Committee Members for IT Infrastructure

Head of JT

-4

Chief Financial Officer

Chief Mahager (IDBL)

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MINUTES OF THE OPENING OF THE TENDER (TECHNICAL/FINANCIAL PHASE)

~

ADMON / IT / CONSULTANT / MEDIA

TYPE OF PROCUREMENT

TENDER MAANE

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TYPE OF TENDER

OPENING DATE

OPENING TIME

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ATTENDANCE (MEMBER PC)

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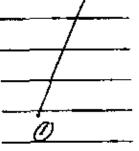
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Over Manager, IDEL

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ATTERDANCE (REPS. OF BIDDERS) _____



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TOTAL BOS ACCEPTED FOR EVALUATION

TOTAL BIOS RESECTED

MEMARIKS

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1 Realized SCHATURE. DATE

- Pr. Head of 1.7 611 Chiel Financial Office. Chief Manager, IDE.

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The below revised procurement plan for the year 2016 is required to be holsted on SPPRA and SNDB websites and is accordingly forwarded for

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approval of the members of Procurement Committee, please.

Completion	March, 2017
Actual Date Actual Date of Start	December, 2016
Method of Procurement	Single Stage One Envelope
Total Estimated Cost (PKR)	Rs.500,000/-
Estimated Unit Costs	Rs. 50/-
Feinned Oty	Gold Cards=5,000 Classic Cards=5,000
A	PAYPAK (DEBIT CARDS)
SPL	Т

PROCUREMENT COMMITTEE

Signature	N V	S. I. Land	Yoly
Name & Designation	Anis Iqbal	Saeed Jamal Tariq	Syed Muhammad Aqeel
	Head of I.T.Division	CFO- Member	Chief Manager IDBL Karachi





PURCHASE ORDER/CONFract Award

Date: 27-01-2017

PO No: 138

M/s Infotel Pakistan (Pvt) Ltd, 10th Floor, Jason Trade Centre, 39-A-1, Block 6, PECHS, Shahrah-c-Paisal, <u>Karachi</u>,

Subject:

Supply of PAY PAK Debit Cards

Dear Sir,

With reference to the Tender Bid SNDB/COK/ADMIN/TD/745/2016 dated 05-12-2016 for Supply of PAY PAK Dubit Cards at Sindh Bank Ltd, submitted by you. After detail review the Sindh Bank Ltd management is pleased to inform that your Tender Bid is accepted.

Further detail is as follows.

1.151		<u>_ 699 908 97 -</u>	1400 18600 10 2 %	-1810, 192, 318 M
1	Pay Pak Debit Cards (Classic)	5,000	34.75	173,750/-
2	Pay Pak Debit Cards (Gold)	5,000	34,75	173,750/-
		Total (I	ncluding All Taxes)	347,500/-

Terms & Conditions

Payment Terms 100% upon delivery. Delivery Within 8 weeks

Taxes/Deduction

Above prices are inclusive of all taxes.

Thanks,

M. Rashid Memon VP/1.T. Division

M Saced Khan SVP/I.T Division

Anis Iobel EVP/Head of IT

SINDH BANK LIMITED HEAD OFFICE: 3rd Floor, Federation House, Asixflah Shah Ghazi Road, Clifton, Karachi-75600, Fakistan

UAN :+92-21-111-333-255 PHONE :+92-21-35829394 FAX :+92-21-35870543 WEE :www.sindhbanittd.com ایاسی : ۲۳۳۲_۲۹۹ : ۲۹۲۹۲ (ای ۲۹۳۹۲ ۲۵۸۹ +۱۲_۲۱_۲۵۸ (ای ۲۹۳۹۲ ۲۵۸۹ +۱۲_۲۱_۲۵۸

بها الم . میر کامتول الد ریش اس. مهداند شاه تا وی دوار بمنشن ، کرویی ۵ ۵ ۷ - با کستان

		Pay Pak Debit Cards	Cards	
S.No.	COMPANY NAME	AMOUNT	PO NO	BANK NAME
-	Infotel Pakistan	300	17232655	HBL
	Total		300/-	

Sindh Bank Limited Tender Document - Supply of Pay Pak Debit Cards

3 SCOPE OF WORK

Card Material

The material used for PayPak card shall meet all technical requirements as specified by ISO/IEC 7810 standards. It could be PVC or PVCA laminated plastic or material, or other materials with the same durability and opacity as PVC/PVCA that are not lower than the ISO/7810 standard and meet the performance and feature requirements for printing of individual identification card as specified by ISO standard.

Card Dimensions

PayPak card dimensions are as follows:

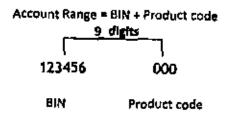
Card Size;	86mm x 54mm x 0.82mm	
Thickness:	0.82mm +/-	
Quality:	High gloss laminated	
Front Side:	4 color printing	┌╴
Reverse Side:	4 color printing	1
Signature	White Tamper proof	1
Magstripe:	HICO	
Standard:	ISO Standard	† -

PAN (Primary Account Number)

The length of the Primary Account Number (PAN) must be 16 digits. The Institution identification Number (IIN), also known as Bank Identification Number (BIN) or Interchange Member Descriptor Number (IMD), must be assigned by PayPak.

The IIN must comprise of the first 6 digits of the PAN.

To fully utilize the numeric capacity of each BIN, the Issuer must issue multiple products on the same BIN to maximize use. The 3 digits followed by the BIN will be assigned as the Product code/ type at the Issuer for Identifying different products. The first 9 digits of the PAN represents account ranges which contains 6 digits BIN and 3 digits Product code/ type.



Front of Card Design

The Primary Account Number can appear in human readable format on the front of the card. PAN may be embossed or printed on the card and must conform to the ISO 7811 standards.

Back of Card Design

The card must contain a magnetic stripe encoded with Track 1 and Track 2. The location and physical characteristics of the magnetic stripe must conform to the ISO 7811 standards.

Track 1 Data

This section describes PayPak specifications for the contents of Track 1 of the magnetic stripe, PayPak requirements conform to ISO 7811-2 and ISO 7813.

Track 1 Content Requirements

Requirements for the contents of the magnetic stripe conform to ISO 7813.

Magnetic-Stripe Encoding Requirements

- The magnetic stripe on a PayPak card must be encoded on both Track 1 and Track 2, as specified in this manual.
- Magnetic-stripe data encoding must begin in sequence from the right-hand side of the card as viewed from the back, with the encoded tracks at the top.
- Service Code values must be encoded on PayPak card. An issuer must encode Service Code 520 to allow PIN based authorization only.
- The centerline of the first data bit (start sentinel) to be recorded on the magnetic stripe must be 7.44mm ± 0.51mm from the right edge of the PayPak card. The centerline of the last data bit to be recorded on the magnetic stripe must not extend closer than 6.93mm from the left edge of the PayPak card.
- The lead-in to the first data bit and the distance from the last data bit to the end of the magnetic stripe must be clocking bits (i.e., zeroes).
- Data on the magnetic stripe must be encoded at 210 bits per inch on Track 1 and 75 bits per inch on Track 2, and contain at least the required information in the various fields as specified in this manual.

All of the following must conform to ISO 7811-2:

- Physical properties
- Performance characteristics
- Density
- Signal level
- Recording angle tolerances

	I	<u> </u>
Longitudinal Redundancy Check	1	

16

Study Bank Limited Tender Document - Supply of Pay Pak Debit Cards

Front of Card Design

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The card must contain a magnetic stripe encoded with Track 1 and Track 2. The location and physical characteristics of the magnetic stripe must conform to the ISO 7811 standards.

Track 1 Data

This section describes PayPak specifications for the contents of Track 1 of the magnetic stripe. PayPak requirements conform to ISO 7811-2 and ISO 7813.

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All of the following must conform to ISO 7811-2:

- Physical properties
- Performance characteristics
- Density
- Signal level
- Recording angle tolerances

Study Bank Limited Tender Document - Supply of Pay Pak Debit Cards

- Error detection
- Permissible surface variation
- Character sets
- Appearance of the magnetic stripe

Record Format

An issuer must comply with the Track 1 encoding requirements as given below.

Table A-1 lists the Track 1 field names and their length.

Track 1 Format

Following is a recommended format for Track-1. Table A-1: Track 1 Record Format

Field Name	Length	Contents	
Start Sentinei	1	1%	
Format Code		·8·	\vdash
Primary Account Number	16	Numeric	-
Field Separator	-1	·//	ŀ
Cardholder Name	26	Alphanumeric	i—
Field Separator	1		
Expliny Date	4	YYMM	
Service Code		'520'	<u> </u>
Discretionary Data	11	PVKI {1 Character}	
		PVV or Offset (4 Characters)	
¢w	3	Numeric	_
Reserved	6	'000000'	
End Sentinel	1	77	
Longitudinal Redundancy Check	- <u> </u>	┦─╾╾╾╴╴	

Sindh Bank Limited Tender Document - Supply of Pay Pak Debit Cards

Track 2 Data

This section describes PayPak specifications for the contents of Track 2 of the magnetic stripe. PayPak requirements conform to ISO 811-2 and ISO 7813.

Track 2 Content Requirements

Requirements for the contents of a magnetic stripe conform to ISO 7813.

Magnetic Stripe Encoding Requirements

- 1. The magnetic stripe on a PayPak card must be encoded on both Track 1 and Track 2, as specified in
- 2. this manual.
- 3. Magnetic stripe data encoding must begin in sequence from the right-hand side of the card as
- 4. viewed from the back, with the encoded tracks at the top.
- 5. Service Code values must be encoded on PayPak card. An issuer must encode Service Code 520 to
- 6. allow PIN based authorization only.
- 7. The centerline of the first data bit (start sentinel) to be recorded on the magnetic stripe must be
- 7.44mm ± 0.51mm from the right edge of the PayPak card. The centerline of the last data bit to be recorded on the magnetic stripe must not extend closer than 6.93mm from the left edge of the PayPak card.
- 9. The lead-in to the first data bit and the distance from the last data bit to the end of the magnetic
- 10. stripe must be clocking bits (i.e., zeroes).
- 11. Data on the magnetic stripe must be encoded at 210 bits per inch on Track 1 and 75 bits per inch
- 12. on Track 2, and contain at least the required information in the various fields as specified in this manual.

All of the following must conform to ISO 7811-2:

- Physical properties
- Performance characteristics
- Density
- Signal level
- Recording angle tolerances

Sindh Bank Limited Tender Document - Supply of Pay Pak Debit Cards

- Error detection
- Permissible surface variation
- Character sets
- Appearance of the magnetic stripe

Record Format

An issuer must comply with the Track 2 encoding requirements as given below.

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Table B-1 displays the Track 2 record format.

Track 2 Format

Following is a recommended format for Track-2.

Table 8-1: Track 2 Record F	ormat
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Field Name	Length	Contents
Start Sentinel	1	4
Primary Account Number	16	Numeric
Field Separator	1	- <u> '='</u>
Expiry Date	4	YYMM
Service Code	3	'520'
cvv	3	Numeric
End Sentine!	1	''''''''''''''''''''''''''''''''''''''
Longitudinal Redundancy	1	
Check		

Personal Identification Number

A cardholder's identity can be verified through PIN (personal identification number). When a PIN is used, verification is performed by either verifying the PIN data online against the issuer's database or offline using a chip card.

When the PiN is to be verified online, the PiN is entered, encrypted, transmitted, translated, and verified against a reference PIN available only in the issuer's (or agent's) processing centre. If the PiNs match, there is a high probability that the cardholder's identity has been verified.

Note: A Personal identification Number (PIN) is a personal identification code that authenticates a Cordholder in an authorization request that originates at a terminal with authorization only and/or data capture only capability.

Requirements to issue PINs

All PayPak issuers are required to make PINs available to their cardholders. An issuer can assign or issue PINs using the cardholder's selection, derived PINs, randomly generated PINs, or any other method deemed suitable by the issuer. Regardless of the method used, it is important that the PIN values be secured and maintained in a way that only the cardholder knows the PIN or has the capability to access the PIN outside a physically secure device.

PIN Length

All cards must have an associated PIN. The length of the PIN must be at least 4 digits. PayPak supports up to 6 digits PIN.

PIN Block Format

PayPak uses the ISO 9564 Format 0 as its standard PIN block format. The PIN Block is made up of 16 hex digits and is formed as follows:

Position	Description	
1	Control Field. Value should be 0	
2	PIN Length. Value should between 4 to 6	-
3-6	PIN digits (1-4)	
7-8	PIN digits (5-6) for a 6 digit PIN or PIN Pad Hex	
9-16	Pad Hex F	

If cardholder entered PIN is of 4 digits, then position 7 and 8 should contain the PIN Pad character, hex F.

The PIN Block is XORed with the PAN Block and then encrypted with the Zone PIN Key (ZPK) before transmission.

The PAN Block is made of 16 hex digits and is formed as follows:

Position	Description	
1-4	Pad digit Hex 0	1
5-16	PAN digits. PAN digits consist of the rightmost	·

PIN Security

The value of a PIN as a means of cardholder identification depends on the ability to ensure that the PIN is known only to the cardholder. Issuers must have assurance that PINs will not be compromised when they are used in other clients' equipment or facilities.

The following standards provide for PIN security in interchange transactions processed using the PayPak System. These standards apply only when an interchange PIN is outside the Issuer's equipment and facilities. The techniques, procedures, and standards used by issuers in their own environment are at the issuers' discretion.

- A PIN used in interchange transactions processed using PayPak System must never be in a Comprehensible unencrypted form except within a PCI PIN Transaction Security (PTS) device.
- A PIN used in Interchange transactions processed using the PayPak System must be managed using the requirements set forth in the *PCI PIN Security Requirements* document.

Card Verification Value (CVV)

This chapter describes the algorithm used to calculate the Card Verification Value (CVV) that is encoded in the CVV field in Track 1 and Track 2 of the magnetic stripe or the chip magnetic stripe image.

CVV

The CVV provides a cryptographic check on the contents of the magnetic stripe. The CVV is generated using secret keys and the algorithm described in this chapter. The algorithm is implemented in a security module or other facility especially designed for highly secret cryptographic operations.

The prerequisites and algorithm for generating the CVV are the same for Track 1 and Track 2 of the magnetic stripe. CVV must be encoded on Track 1 and Track 2 of the magnetic stripe and on the chip magnetic stripe image.

PayPak requires all cards to be encoded with the CVV.

Note: The CVV calculation is independent of the length of the PAN.

DES Algorithm

The CVV computation uses the Data Encryption Standard (DES) algorithm defined by the National Institute of Standards and Technology (NIST). The CVV specification requires a pair of 64-bit cryptographic key; that is, two 64-bit DES keys, each having odd parity and constructed. The two 64-bit DES keys can also be implemented as a single 128-bit TDES keys. For the purpose of this manual, the rest of the CVV algorithm description uses the terminology of two 64-bit DES keys.

Generating and Verifying the CVV

The CVV computation generates a three-position CVV for Track 1 and Track 2 of the magnetic stripe.

One pair of 64-bit cryptographic keys called Card Verification Keys (CVKs) is used to generate and verify the CVVs for tracks 1 and 2.

PayPak mandates the following security precautions for CVV keys:

Issuers must not use the same verification keys for CVV and CVV2 as those used for PIN Verification values (PVVs). If the common keys were to be compromised, it would affect both the Issuer's PVVs and CVVs.

CVV and CVV2 verification keys should be different from any other DES keys used by the issuer. Because each issuer has unique keys, a breach of security will be limited to a particular issuer rather than affecting all issuers using the CVV.

Note: Using the same key for CVV, CVV2 is an exception to the general rule against using one key for multiple applications. The exception is allowed because all are variations of the CVV application.

To create a CVV, the CVK pair is introduced to the DES algorithm with other data. Similar to any DESbased scheme, the security of the output value depends on the secrecy of the DES keys.

The CVK pair must be kept secret and should not be known to anyone. If the unauthorized disclosure of a CVK pair is known or suspected, the CVK pair should be replaced immediately. Cards with CVVs generated using the potentially compromised keys should be relasued as soon as possible. When all such cards have been reissued, the potentially compromised CVK pair should be invalidated.

Computing the CVV

Throughout the CVV computation, the first of the two 64-bit DES keys is referred to as Key A, the second as Key B. The following steps are performed to compute the CVV:

- Construct a string of bits by concatenating, from left to right, the rightmost four bits of each character of the following data elements:
 - Primary Account Number (PAN)
 - Card Expiration Date
 - Service Code

For example, a 16-digit PAN with a 4-digit Card Expiration Date and a 3-digit Service Code would produce a 23-character (16 + 4 + 3) string that is 92 bits long (23 - 4).

2. Type the result from step 1 into a 128-bit field, right-filling the remaining bits with binary zeros. For example, a 16-digit PAN with a 4-digit Card Expiration Date and 3-digit Service Code requires 36 trailing zeroes to complete the 128-bit field.

- 3. Split the 128-bit field into two 64-bit blocks. The leftmost 64 bits are Block 1, the rightmost 64 bits are Block 2.
- 4. Encrypt Block 1 using Key A.

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- 5. Exclusive-OR (XOR) the result of step 4 with Block 2. Encrypt this value with Key A.
- 6. Decrypt the result of step 5 using Key 8.
- 7. Encrypt the result of step 6 using Key A.
- 8. Use the result of step 7 and, beginning with the leftmost digit, extract all the digits from 0 through 9. Left-justify these digits in a 64-bit field.
- 9. Use the result of step 7 and, beginning with the leftmost digit, extract the hexadecimal digits from A to F. Then, convert each extracted digit to a decimal digit by subtracting 10.

When converted, hexadecimal B becomes decimal 1. (Hexadecimal B = 11 decimal; 11 - 10 = 1)

- 10. Concatenate the decimalized digits from step 9 to the right of the result of step 8.
- Select the three leftmost digits. These digits are the CVV which is encoded on the magnetic stripe.

For the first set of test data for a 16-digit account number, the calculation of the CVV is performed as listed in Table C-1. The values used in the calculation are as follows:

PAN: 4123 4567 8901 2345 Expiration Date: 8701 Service Code: 520

Table C-1: CVV Calculation Example

CVV Calculation Steps	Example
1. Extract data	4123456789012345 8701 520
2. Place into 128-bit field padded to the right with	4123456789012345 8701 520 0000 000
3. Split field into two 54-bit blocks	Block 1 = 4123 4567 8901 2345

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Tender Document - Supply of Pay Pak Debit Cards

Card Verification Value 2 (CVV2)

The Card Verification Value 2 (CVV2) is a card verification tool designed to reduce fraud losses on transactions when the card is not present, such as in Mail Order/Telephone Order (MOTO) and electronic commerce (EC) transactions, and to enhance the effectiveness of voice referrals. In some countries, the CVV2 is also used in card present transactions.

Cardholders performing a MOTO/EC transaction may be requested to enter the CVV2 printed on the back of the card. When a voice referral response is received in response to an authorization request, the clerk at the point of sale (POS) may be instructed to read the CVV2 value printed on the back of the card to the referral operator. The Primary Account Number (PAN) and expiration date are then used to calculate a transaction CVV2 value, which is compared to the reference value printed on the card. A match enhances the probability that the genuine card is present at the point of transaction.

The CVV2 value is computed using the same algorithm for the Card Verification Value (CVV), with the exception of the expiration date which is input using embossed or printed format (MMYY). The CVV2 may also be calculated under the YYMM format;

The Card Verification Key (CVK) pair used for calculating the CVV2 *may* be the same as the one used to calculate the CVV.

Data Components

The following data components are used to compute the algorithm:

- Primary Account Number (PAN)
- Card expiration date as it appears on the front of the card (MMYY)
- Three zeros, which take the place of the Service Code value

These three components are encrypted using the Data Encryption Standard (DES) algorithm and a Card Verification Key (CVK) pair, which result in a three-digit, CVV2 value.

Note:

This is a Single Stage one envelop procedure, therefore 1st lowest bid will be evaluated first. If the 1st lowest bidder is disqualified evaluation criteria, then next lowest bid will be evaluated.

Similarly if 2nd bidder is disqualified, then 3rd lowest bidder will be evaluated and so on. On qualification of a bidder during this process no further evaluation will be done. SIndh Bank Limited Tender Document - Supply of Pay Pak Debit Cards

4. Encrypt: Block 1 using Key A	Block 1 = 4123 4567 8901 2345
	Key A = 0123 4567 89AB CDEF
5. XOR the result of step 4 with Block 2, then encrypt	Block 2 = 8701 1010 0000 0000
the XOR result with Key A	XOR result = 306B CDDE 71CC C6BE
	then encrypt the XOR result with Key A Key A =
6. Decrypt the result of step 5 with Key B	Key 8 = FEDC 8A98 7654 3210
7. Encrypt the result of step 6 with Key A	Key A = 0123 4567 89A8 CDEF
8. Extract all digits form 0 through 9 from the result	Step 8 result * \$614 9820 397
9. Extract the hexadecimal digits from the result of	Extract hex digits = BECD D Step 9 result =
step 7 and convert them into numerics by subtracting	1423 3
10. Concatenate the result of step 9 to the result of	Concatenate = 5614 9820 3971 4233
11. Select the three left most digits as the CVV	CVV = 561

Encoding the CVV in Tracks 1 and 2

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The CVV must be encoded in the CVV field in Track 1 and Track 2 of the magnetic stripe or the chip magnetic stripe image.

Sindh Bank Limited Tender Document - Supply of Pay Pak Debit Cards

Card Verification Value 2 (CVV2)

The Card Verification Value 2 (CVV2) is a card verification tool designed to reduce fraud losses on transactions when the card is not present, such as in Mail Order/Telephone Order (MOTO) and electronic commerce (EC) transactions, and to enhance the effectiveness of voice referrals. In some countries, the CVV2 is also used in card present transactions.

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