5 Money Market

After the reversal of the December 2003 upsurge in short-term rates, the market entered a period of relative stability. While it continued to expect a modest

increase in demand for government borrowing, it was also concerned about a number of related issues. These included the steady increase in domestic inflation, the rise in international interest rates and the narrowing current account surplus, the SBP had successfully contained the expectations of a sharp rise in interest rates by allowing only a very gradual increase

in T-bill cut-offs (see **Figure 5.1**).

As evident in **Figure 5.2**, short-term rates only saw a modest increase during Q3-FY03. However, as in Q2-FY03, market expectations were jolted by the April 2004 announcement of an unexpectedly large PIB auction. This, together with an unseasonal acceleration in inflation, as well as an incremental narrowing of the





current account¹ revived expectations of a large movement in interest rates. Accordingly, term rates climbed strongly April 2004 onwards.²

¹ This owed to both a jump in imports as well as the termination of the Saudi Oil Facility (highlighted in the April 2004 release of the end-March 2004 balance of payments data). The latter, in particular, implied a dual negative impact: the lower external account surplus suggested a decline in rupee injections due to lower SBP forex purchases, while simultaneously increasing the government's reliance on domestic funding to finance the fiscal deficit.

 $^{^{2}}$ By end-May 2004, the rise was due to factors related to the PARCO swap transaction (this floating rate borrowing was linked to the average market prior to the transaction date).

Box 5.1: Karachi Interbank Offered Rate (KIBOR)

KIBOR is defined as the average rate (ask side), for the relevant tenor, as published on the Reuters page *KIBOR* or as published by the Financial Markets Association of Pakistan in case the Reuters page is unavailable.

Initially, introduced in September 2001, KIBOR was only used as a reference rate for interbank money market (for clean lending). However, to promote the culture of floating rate lending and make the mechanism transparent both for lender as well as borrower, KIBOR was also introduced as a reference rate for corporate lending in February 2004.

Initially KIBOR of one-month; three-month and six-month tenors would be used as benchmark for all-corporate lending in the local currency. Subsequently, It was successfully extended to one year on March 31, 2004 and would be extended to three years by December 31, 2004.

KIBOR will not be applicable on (1) export finance scheme (2) consumer financing and SME lending (3) overdrafts and running finance facilities existing before January 31, 2004 (4) term finance certificates/ commercial papers approved by SECP or submitted to any stock exchange before January 31, 2004; and (5) all term loans with agreements executed before January 31, 2004. However, in case of re-pricing, KIBOR will be applicable in available tenors.

5.1 Term Structure of Interest Rates

During Q3-FY03, there was little change in the longer end of the yield curve, other than its successful extension with the inaugural issue of 15- and 20-year Treasury bonds (PIBs) in January 2004 (see Figure 5.3). However, there were some movements in shorter tenors, in line with the developments discussed earlier. Initially, the yield curve pivoted down to become steeper following the post-December 2003 fall in short-term rates and



thereafter flattened only slightly by April 2003 (largely mirroring the very gradual rise in the T-bill auction cut-offs).

The stability of the long-term rates owed, in part, to the lack of large PIB auctions during the period. This lowered pressure on PIB prices and complemented the SBP's policy of raising short-term rates only very gradually. However, the

market's interest rate outlook underwent a transformation with the unexpected large PIB issue announced in April 2004, which suggested a strong government appetite for borrowings. The resulting expectation of a sharper rise in the interest rates was then reinforced by relatively larger upward shift of the acceptance cutoffs in the next two T-bill auctions (as inflationary concerns grew).

The scale of the shift in market expectations by mid-May 2004 is evident from changes in the profile of the bids in T-bill auctions. For example, in the 3-month Tbill auction for June 9, 2004, the lowest bid was substantially above the highest bid of the previous auction (see Figure 5.4). These developments clearly highlight the importance of a greater coordination between the SBP (that sets targets for T-bills auctions) and the Finance Ministry (which sets targets for PIBs), in managing the interest rate expectations in the economy. This becomes even more important in the case of Pakistan given that during FY04 (to date), net government market borrowings through PIBs have been significantly higher than through T-bills.



Table 5.1: Secondary Market Trading

binion Rupees							
	3m	6m	12m	PIB	Combined		
Q1-FY04							
Total	22.0	256.1	776.9	760.2	1,815.2		
Average	0.3	3.4	10.2	10.0	23.9		
Max	3.0	34.9	39.8	18.1	64.4		
		Q2-	FY04				
Total	20.8	216.7	989.8	1,151.9	2,379.1		
Average	0.3	3.0	13.6	15.8	32.6		
Max	3.5	8.1	28.1	52.7	52.7		
Q3-FY04							
Total	69.7	248.6	766.2	1,031.9	2,116.4		
Average	1.2	3.6	11.1	15.2	30.7		
Max	9.2	52.9	21.8	26.8	81.4		
April 20004							
Average	2.0	2.3	12.2	15.3	31.8		

5.2 Trading Volumes³

As seen from **Table 5.1**, secondary market trading in government securities has averaged over Rs 30 billion in Q2 and Q3 of FY04, which is substantially higher than for the corresponding figures for FY03.

³ Reported volumes are based on simple aggregation of SGLA movements.

Another very significant development in recent quarters is the increased interbank trading in PIBs. As seen in **Figure 5.5**, the increased trading in PIBs appears to be co-related with the rise in outstanding stock of these instruments with the banking sector.

5.3 SBP Market Support and Rupee Interventions

As shown in **Figure 5.6**, the frequency and direction of OMOs during Jan-Apr 2004 was in sharp contrast to those in the corresponding period of FY03. In specific terms, there was no OMO Jan-Apr 2003 compared with seven OMOs during the corresponding period of the current year. These OMOs (Jan-Apr 2004) were geared to stem the excessive growth in monetary aggregates (M2 and reserve money).

As shown in **Figure 5.7** and **Table 5.2**, barring a few episodes of discounting, the market remained relatively more liquid during Jan-Apr 2004 as compared with Q2-FY04 and the corresponding period last year.

As reported in **Table 5.3**, the average level of overnight rates showed a decline of







billion Rupees									
	No. of visits		Tota	Total discounting		Average per visit			
	FY02	FY03	FY04	FY02	FY03	FY04	FY02	FY03	FY04
1st Quarter	39	16	-	161.5	144.1	-	4.1	9.0	-
2nd Quarter	57	32	3	336.2	325.3	10.9	5.9	10.2	3.6
January	5	10	1	17.4	140.2	1.4	3.5	14.0	1.4
February	8	1	2	102.0	2.5	8.3	12.7	2.5	4.2
March	1	0	-	10.4	-		10.4	-	-
3rd Quarter	14	11	3	129.7	142.7	9.7	9.3	13.0	3.2

Table 5.2: Activities at Discount Windowbillion Rupees

around 70 bps in Q3-FY04 compared with the last quarter, reflecting relative liquidity ease in the market. However, volatility increased despite more frequent market intervention by the SBP.

5.4 Treasury-bill Auctions

As shown in **Figure 5.8**, the targets set for T-bill auctions during January-April 2004 were typically higher than maturities. Moreover, other than a single auction (January 22, 2004) all attracted substantial interest and the amounts accepted were typically slightly higher than the amounts maturing, indicating the ample liquidity available with banks.

However, it is significant to note that for most auctions the acceptance cut-off lay towards the lower end of the

Table 5.3: Volatility of Overnight Rates

percent			
	Std Dev	Average	Coef. of Var
Oct-03	1.9	2.2	0.8
Nov-03	1.7	2.2	0.8
Dec-03	2.3	2.2	1.0
Q2-FY04	2.0	2.2	0.9
Jan-04	2.2	1.8	1.2
Feb-04	2.8	1.9	1.5
Mar-04	0.8	1.0	0.8
Q3-FY04	2.1	1.5	1.4
Apr-04	2.4	2.7	0.9



bid-spread. In other words, despite the apparent liquidity, banks continued to demand a larger increase in yields than what the SBP was willing to offer.

The ability of banks to do so, in turn, depended on a number of factors, these included the low opportunity cost of uninvested funds (T-bill auction yields were

marginally higher than the average overnight rate), as well as the investment opportunities offered by large PIB issues.

5.5 Pakistan Investment Bond (PIB) Auctions

Contrary to initial market expectations, Q3-FY03 witnessed only one small (Rs 6 billion) PIB auction (marking the launch of the 15- and 20-year PIB). As shown in Figure 5.9, the January 2004 auction of 15-& 20-year bonds generated a lot of interest especially amongst non-bank institutions. The amount on offer was almost twice the announced target, and not surprisingly the acceptance



cut-off was at a premium (see Table 5.4).

However, it was the announcement of a Rs 40 billion Jumbo issue, which was to be issued in two tranches (Rs 25 billion for April 2004 and the remainder in May 2004), which had a significant impact on market expectations. .

As seen in Table 5.4, the April 2004 offering (first tranche of the Jumbo issue) reflected the heavy market demand for long-term bonds. All tenors were oversubscribed and the tenor-wise

Table 5.4: P	IB Auction	(15 & 2	20 years	maturity)
			•	• ·

Auction held on January 19, 2004

Acceptance (billion Rupees)						
	Non	Short selling	Total			
15-year	0.1	0.3	3.3			
20-year	0.2	0.4	3.2			
Total	0.2	0.7	6.5			
Interest rates (in pe	ercent)					
	Coupon	Cut-off	W. Average			
15-year	9.0	7.8	7.7			
20-year	10.0	8.8	8.7			
Price (in Rupees)						
	Highest	Lowest	Range			
15-year	112.7	105.0	7.7			
20-year	113.6	105.2	8.4			

Note: Totals may not tally due to separate rounding-off

targets were met comfortably. Despite a slight decline in yields of 3- and 5-year bonds, the yield on the 10-year bond increased by 27 bps. Intuitively, it seems that this difference in the direction of change in the 10-year bond yield relative to that other tenors is largely due to the significantly larger amounts offered in the longer tenor instrument.⁴

However, the May 2004 PIB auction (second tranche of the Jumbo issue) saw a more than 80 bps rise in PIB cut-off yields (see Table 5.5). This meant that the yield curve became steeper (as this rise was greater than the rise in cut-off yields in the earlier Tbill auction). This steepening yield curve, in turn, (1) put an upward pressure on shortterm interest rates, and (2) intensified banks' interest in long-term government paper (ironically, this came precisely when the SBP was warning banks on the risks of very high PIB holdings).⁵

As shown in Figure 5.10, the share of commercial banks in the total stock of outstanding PIBs has declined in the period January-April 2004. It shows that during this period, fresh issues were largely purchased by non-bank institutions. While this development is quite welcome, the PIB holdings of

Table 5.5: PIB Auction (3, 5 & 10 years maturity)	
quotion hold on April 20, 2004	

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		3-year	5-year	10-year	Total
Target	billion Rupees	3.0	7.0	15.0	25.0
Offered	billion Rupees	7.7	15.7	23.7	47.1
Accepted	billion Rupees	3.0	8.3	15.0	26.3
Cut-off (price)	Rupees	106.3	109.2	111.0	-
Coupon	percent	6.0	7.0	8.0	-
Cut-off (yield)	percent	3.8	4.9	6.5	-
auction held on May 29, 2004					
Target	billion Rupees	2.0	3.0	10.0	15.0
Offered	billion Rupees	3.0	4.3	10.4	17.7
Accepted	billion Rupees	1.9	3.0	10.0	14.9
Cut-off (price)	Rupees	104.5	107.1	104.4	-
Coupon	percent	6.0	7.0	8.0	-
Cut-off (yield)	percent	4.4	5.4	7.4	-



⁴ One interesting explanation conjectured for the higher supply in 10-year would tend to increase its yield and thereby lowering its differential with the DSC yields. This, in turn, would permit the government to avoid a (quite unpopular) large cut in NSS rates (which are issued at a small premium on PIB yields).

⁵ As discussed earlier, this highlights the need the for greater coordination between T-bill and PIB auctions, in terms of timing and size of issuances and their probable impact on interest rate movements.

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banks remain uncomfortably high, given the potential for large capital losses in case of a significant upward shift in interest rates.