D.7.5 Computer Aided Tariff Collection System

D.7.5.2 Master Plans and Feasibility Analysis

(1) Questionnaires

	Table D.7.5.1 Questionnaire for Staffs			
	· City	Tashkent	Chirchik	Total
1.	Meter Reading			
1.1	How long does it take you to prepare	data to input the com	outer (10 data, avera	ge)?
(1)	I do not prepare data (0 minute)	0	0	0
(2)	5 minutes or less	4	1	. 5
(3)	about 10 minutes	0	0	0
(4)	about 20 minutes	6	0	6
(5)	about 30 minutes	1	0	1
(6)	more than 30 minutes	2	0	2
	Others, No Answer	0	. 0	0
	TOTAL	13	1	14
1.2	How long does it take you to input th	e data into the comput	er system (10 data, a	average)?
	1 min 5 min.	0	0	0
ĺ	6 min 10 min.	6	1	7
	11 min 20 min.	5	1	6
	21 min	2	0	2
	Others, No Answer	0	0	0
	TOTAL	13	2	15
	Average (min.)	15.4	12.5	15.0
	-			
1.3	How long do you estimate to reduce t	the time of inputting d	ata if a format which	specifies data?
(1)	No time to be reduced.	0	0	0
(2)	To be reduced.			
	1 min 5 min.	13	1	14
	6 min 10 min.	0	0	0
	11 min 20 min.	0	0	0
	21 min	0	0	0
	Others, No Answer	0	1	1
	TOTAL	13	2	15
	Average (min.)	1.3	1.0	1.3

<u></u>	City	Tashkent	Chirchik	Total
2	Billing			
2.1	How long does it take to check the am	ount of water tariff (10 data, average)?	
	1 min 5 min.	0	0]	0
	6 min 10 min.	8	l	9
	11 min 20 min.	1		2
	21 min	4	0	4
	Others, No Answer	0	0	0
	TOTAL	13	2	15
	Average (min.)	18.5	. 14.0	17.9
L				
2.2	How long is it longer to spend for billi	ng to meter users that	n to norm users (10 d	lata, average)?
(1)	not longer	6	0	6
(2)	1 minute	0	0	0
(3)	2 minutes	0	0	0
(4)	5 minutes	2	0	2
(5)	10 minutes	0	1	1
(6)	more than 10 minutes	5	1	6
<u> </u>	Others, No Answer	0	0	0
	TOTAL	13	2	15

•••

.

•

	City	Tashkent	Chirchik	Total
3	Collection			
3.1	How long does it take to gather the	whole information of ta	ariff collection(e.g.,	from bank,
(1)	2, 3 days	4	0	4
(2)	l week	8	0	8
(3)	2 weeks	0	0	0
(4)	3 weeks	1	0	1
(5)	4 weeks	0	0	0
(6)	l month	0	2	2
	Others, No Answer	0	0	0
	TOTAL	13	2	15

3.2	How long does it take to arrange the data of collection (10 data, average, e.g., check, copy.				
(1)	5 minutes or less	0	0	0	
(2)	about 10 minutes	0	0	0	
(3)	about 15 minutes	0	0	0	
(4)	about 20 minutes	1	0	l	
(5)	about 30 minutes	3	0	3	
(6)	more than 30 minutes	8	1	9	
	Others, No Answer	0	1	1	
	TOTAL	12	2	14	

3.3 How long does it take to input the tariff collection data into the computer system (10 data,			
1 min 5 min.	0	0	0
<u> </u>	0	1	1
11 min 20 min.	0	0	0
21 min	0	0	0
Others, No Answer	13	1	14
TOTAL	13	2	15
Average (min.)	#D1V/0!	10.0	10.0

	Table D.7.5.2 Questionnaire for Controllers				
	City	Tashkent	Chirchik	Total	
Ι.	General Matters				
1.1	What kind of users do you take in ch	arge?			
(1)	Industry	2	0	2	
(2)	Communal Services Sector	2	0	2	
(3)	House	2	0	2	
(4)	Apartment	1	3	4	
	Others, No Answer	0	3	3	
	TOTAL	7	6	13	
•					
1.2	How many users do you take in char	ge?			
	1 users - 50 users	1	0	1	
	51 users - 200 users	2	0	2	
	201 users - 1000 users	3	0	3	
	1001 users -	0	3	3	
	Others, No Answer	1	3	4	
	TOTAL	7	6	13	
	Average (users)	287.7	1,278.7	618.0	
1		• · · · · · · · · · · · · · · · · · · ·	- -		
1.3	How often do you come to the Vodol	kanal Office?		······································	
(1)	Several times a day	0	0	0	
(2)	Once a day	4	. 6	10	
(3)	Once a few days	1	0	· 1	
(4)	Once a week	2	0	2	
1	Others, No Answer	0	0	0	
	TOTAL	7	6	13	
		<u> </u>			
1.4	What do you usually do at the Vodol	kanal Office?			
(1)	Meeting	0	0	0	
(2)	Reporting	0	0	0	
(3)	Arranging data	0	0	0	
(4)	Surveying	0	1	1	
(5)	Other	0	1	1	
	Other, No Answer	7	4	11	
	TOTAL	7	6	13	
		····			
1.5	Have you ever used a personal comp	uter?	• ····································		
(1)	Yes, usually	1	1	2	
(2)	Yes, sometimes	0	0	0	
$\overline{(3)}$	Yes, but a few times	0	0	0	
(4)	No	6	4	10	
<u> `´</u>	Others, No answer	0	1	1	
	TOTAL	7	6	13	

Table D.7.5.2 Questionnaire for Controllers

	City	Tashkent	Chirchik	Total
2	Meter Reading			
2.1	What percentage of your total work	ing time do you spend	for meter reading?	
	0%	0	0	0
	1 % - 20 %	5	0	5
	21 % - 50 %	1	3	4
	51 % -	0	0	0
	Others, No Answer	1	3	4
	TOTAL	7	6	13
	Average (%)			

2.2 What percentage of your total working	ng time do you spend for con	upling meter reading	g data?
0 %	0	0	0
1 % - 20 %	5	3	8
21 % - 50 %	1	0	1
51 % -	0	0	0
Others, No Answer	· 1	3	4
TOTAL	7	6	13
Average (%)			

2.3 How many sites do you visit for me	ter reading every day on ave	rage?	
1 sites - 10 sites	4	0	4
11 sites - 50 sites	1	3	4
51 sites - 100 sites	1	0	· 1
101 sites -	0	0	0
Others, No Answer	1	3	4
TOTAL	7	6	13
Average (sites)	24.3	17.3	22.0

1 min. – 5 min.	0	0	0
6 min 10 min.	1	3	4
11 min 20 min.	3	0	3
21 min	2	0	2
Others, No Answer	1	3	4
TOTAL	7	6	13
Average (min.)	20.3	10.0	16.9

2.5	Do you conduct meter reading on we	ekends?		
(1)	Yes, often.	0	0	0
(2)	Yes, sometimes.	3	0	3
(3)	No, almost not.	2	1	3
(4)	Never.	2	5	7
	Others, No Answer	0	0	0
	TOTAL	7	6	13

	Cíty	Tashkent	Chirchik	Total
2.6	If a format is used for meter reading, meter reading data is reduced?	, do you think that th	e time for preparati	on of compling
(1)	No time to be reduced.	0	0	0
(2)	To be reduced.			
	1 min 5 min.	3	3	6
	6 min 10 min.	0	0	0
	11 min 30 min.	1	0	<u> </u>
	31 min	0	0	0
	Others, No Answer	3	3	6
	TOTAL	7	6	13
	Average (min.)	4.5	1.0	3.0

3. Billing

3.1 What percentage of your total workin	What percentage of your total working time do you spend for billing (excluding meter reading)?			
0%	0 0	0 0	0	
1 % - 20 %	3	2	5	
21 % - 50 %	Õ	0	0	
51 % -	0	0	0	
Others, No Answer	4	4	8	
TOTAL	7	6	13	
Average (%)				

3.2 For how many users do you usually	For how many users do you usually bring the new Customer Book to their houses at the				
l user - 10 users	0	0	0		
11 users - 50 users	0	0	0		
51 users ~ 100 users	0	0	0		
101 users -	l	6	. 7		
Others, No Answer	6	0	6		
TOTAL	7	6	13		
Average (users)	700.0	601.5	615.6		

3.3	How long is it longer to spend for bill	ing to meter users than to	norm users (10 da	ata, average)?
(1)	not longer	2	0	2
(2)	1 minute	0	0	0
(3)	2 minutes	0	0	0
(4)	5 minutes	0	3	3
(5)	10 minutes	<u> </u>	0	ì
(6)	more than 10 minutes	0	3	3
	Others, No Answer	4	0	4
	TOTAL	7	6	13

	City	Tashkent	Chirchik	Total	
4.	Collection				
4.1	What percentage of your total working time do you spend for tariff collection?				
	0%	0	0	0	
	I % - 20 %	2	0	2	
	21 % - 50 %	0	3	3	
	51 % -	1	3	4	
	Others, No Answer	4	0	4	
	TOTAL	7	6	13	
	Average (%)				

4.2 What percentage of your total working	What percentage of your total working time do you spend for arranging data of tariff				
0%	0	0	0		
I % - 20 %	2	1	3		
21 % - 50 %	1	5	6		
51 % -	0	0	0		
Others, No Answer	4	0	4		
TOTAL	7	6	13		
Average (%)					

4.3	How long does it take to arrange the data of collection (10 data, average)?				
(1)	I do not arrange data (0 minute).	1	0	1	
(2)	5 minutes or less	0	0	0	
(3)	about 10 minutes	0	1	1	
(4)	about 20 minutes	0	4	4	
(5)	about 30 minutes	1	0	1	
(6)	more than 30 minutes	1	1	2	
	Others, No Answer	4	0	4	
	TOTAL	7	6	13	

4.4	Have you ever received part (not full amount) of water tariff from users?			
(1)	Yes, often.	0	6	6
(2)	Yes, sometimes.	3	0	3
(3)	No, almost not.	0	0	0
(4)	Never.	4	0	4
	Others, No Answer	0	0	. 0
	TOTAL	7	6	13

D7-5-7

	City	Tashkent	Chirchik	Total	
5.	Unpaid Control				
5.1	What percentage of your total working time do you spend for controlling overdue users?				
	0 %	0	0	0	
	1 % - 20 %	4	2	6	
	21 % - 50 %	2	4	6	
	51%-	0	0	0	
	Others, No Answer	0	0	0	
	TOTAL	6	6	12	
[Average (%)				

5.2 How many overdue users do you us	How many overdue users do you usually have on average?				
1 user - 10 users	1	0	1		
11 users - 50 users	2	5	7		
51 users - 100 users	2	1	3		
101 users -	2	0	2		
Others, No Answer	0	0	0		
TOTAL	7	6	13		
Average (users)	92.1	36.7	66.5		

5.3 How many unpaid users do you	How many unpaid users do you visit every day on average?					
l user - 10 users	4	3	: 7			
11 users - 20 users	0	0	0			
21 users - 50 users	3	3	6			
51 users -	0	0	0			
Others, No Answer	0	0	0			
TOTAL	7	6	13			
Average (users)	13.1	17.0	#DIV/0!			

5.4 How long does it take to visit a	How long does it take to visit an overdue user on average?				
1 min 5 min.	0	3	3		
6 min 10 min.	1	3	4		
11 min 30 min.	4	0	4		
31 min	2	0	2		
Others, No Answer	0	0	0		
TOTAL	7	6	13		
Average (Min.)	28.6	7.2	18.7		

5.5	Have you ever suspended the water s	supply actually?		
(1)	Yes, often.	2	2	4
(2)	yes, sometimes.	2	4	6
(3)	No, almost not.	1	0	J
(4)	Never.	2	0	2
	Others, No Answer	0	0	0
	TOTAL	7	6	13

	City	Tashkent	Chirchik	Total
1.	Meter Reading			
1.1	Do you think that it is possible	to use handy terminal for m	eter reading?	
(1)	Yes, absolutely.	4	20	24
(2)	Yes, maybe.	2	4	6
(3)	No, a little difficult.	4	I	5
(4)	Never.	0	0	C
	Others, No Answer.	0	0	0
	TOTAL	10	25	35

Tent Call c

1.2	Do you think that controllers can ope by themselves?	erate personal computers to i	nput the data of me	ter reading
(1)	Yes, absolutely.	3	20	23
(2)	Yes, maybe.	6	5	11
(3)	No, a little difficult.	1	0	1
(4)	Never.	0	0	0
	Others, No Answer.	0	0	.0
	TOTAL	10	25	35

Suppose that a controller reads the water meter without users' witnessing and issue the bill he 1.3 brings (not Customer's Book). What percentage of the time for meter reading do you think will be reduced on average?

1) For enterprise users			
0 %	0	0	0
1 % - 10 %	0	0	0
11 % - 20 %	2	7	9
21 % -	6	14	20
Others, No Answer.	2	4	6
TOTAL	10	25	35

2) For population users			
0 %	0	0	0
1 % - 10 %	0	1	1
11 % - 20 %	1	6	7
21 % -	7	17	24
Others, No Answer.	2	1	3
TOTAL	10	25	35

۲

D7-5-9

[City	Tashkent	Chirchik	Total
1.4	Suppose that a controller uses handy meter reading do you think will be reading		ading. What percen	tage of the time for
1)	For enterprise users	·		
	0 %	0	0	0
	1 % - 10 %	0	0	. 0
ľ	11 % - 20 %	0	0	0
	21 % -	8	22	30
	Others, No Answer.	2	3	5
	TOTAL	10	25	35

2) For population users		-	
0%	0	0	0
1 % - 10 %	0	0	0
11 % - 20 %	0	3	3
21 % -	7	22	29
Others, No Answer.	3	0	3
TOTAL	10	25	. 35

2. Billing

<i>L</i> .				
2.1	Suppose that the formula of wate appropriate to calculate the tarifi	•		-
(1)	Yes.	10	21	31
(2)	No.	0	4	4
	Others, No Answer.	0	0	0
	TOTAL	10	25	35

2.2	Without user's witnessing the meter reading, do you think that the user pay appropriately				
4.4	according to the bill?				
(1)	Yes, absolutely.	2	11	- 13	
(2)	Ycs, maybe.	5	11	16	
(3)	No, almost not.	3	3	. 6	
(4)	Never.	0	0	0	
	Others, No Answer.	0	0	0	
	TOTAL	10	25	35	

3. Collection

	00110011011				
2 1	What percentage of population users do you think will agree to pay by withdrawing from their				
3.1	bank accounts. if they are requested	to do so by Vodokanal	?		
	0 %	1	0	1	
	I % - 10 %	4	2	6	
	11 % - 50 %	3	13	16	
	51 % -	1	10	11	
	Others, No Answer.	1	0	1	
	TOTAL	10	25	35	

	City	Tashkent	Chirchik	Total
1.	Unpaid Control	and the second secon		
4.1	Do you think it appropriate to s	send notification several tim	ies and then to visit the	ne unpaid users
4.l	for the first time?	T		
(1)	Yes.	8	20	21
(2)	No	2	5	
	Others, No Answer.	0	0	
	TOTAL	10	25	3:
4.2	Do you think that unpaid user s	settles the bill according to	notification instead of	f visiting him?
(1)	Yes, absolutely.	3	12	1
(2)	Yes, maybe.	7	5	Ľ
(3)	No. almost not.	0	8	
(4)	Never.	0	0	
<u></u>	Others, No Answer	0	0	(
	TOTAL	10	25	3
4.3 1) (1)	How do you think that some co Efficient	ntrollers only read meters v	vhile others only colle ol	ect tariff?
<u>1)(1)</u> (2)	Inefficient			
(2)	Others, No Answer	7	15	2
	TOTAL	10	25	3
			23	,
2)(1)	Good.	5	11	<u> </u>
(2)	Bad.	0	0	
	Others, No Answer.	5	14	<u> </u>
	TOTAL	10	25	3
3) (1)	Easy		2	
	Difficult		2	
(2)	Others, No Answer.		21	2
	TOTAL	10	25	3
5.	Other		1	
5.1	If controllers are grouped by ta	sk functions, meter reading	, unpaid user control.	, etc, ao you (If
	you were a controller) want to	belong to the section for op	erating the computer 18	systems?
(1)	Yes, pleased.	<u>1</u>	10	I

1	you were a controller want to belong	to the acciton for of	vortating, the company	1 0 0 000
(1)	Yes, pleased.	1	18	19
(2)	Yes, want to try.	9	7	16
(3)	No, if it can.	0	0	0
(4)	Never.	0	0	0
	Others, No Answer.	0	0	0
	TOTAL	10	25	35

D7-5-11

.

•

