

# Kathmandu Upatyaka Khanepani Limited



**Quarterly Operating Report**  
**First Quarter 2065/065**  
**1 Shrawan – 30 Ashwin 2065**  
**(16 July – 16 October 2008)**

**Kathmandu**  
**Nepal**

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## INTRODUCTION

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Kathmandu Upatyaka Khanepani Limited (KUKL), a public limited company was established in 2007 under the “Company’s Act” under a Public Private Partnership (PPP) model. The current shareholders of KUKL are the Government of Nepal (GON), Municipalities within the Kathmandu Valley (Kathmandu Metropolis and Lalitpur Sub-metropolis), Federation of Nepalese Chamber of Commerce and Industries (FNCCI)/Nepal Chamber of Commerce (NCC) and the Employees Trust. The Board of Directors of the Company consists of seven members including three independent Board Members.

A thirty-year license was granted to KUKL on 1 Falgun 2064 (13 February 2008) by the Kathmandu Valley Water Supply Management Board (KVWSMB) for operating the water supply and sanitation services in the service areas within Kathmandu Valley. KUKL took over responsibilities to operate the water supply and sanitation services under this license and a lease agreement for the same period (between KVWSMB and KUKL) on 13 Feb 2008. Three managers, General Manager, Administrative/Finance Manager and Technical Manager, were appointed on contract between March-April 2008 and are supported by three deputy managers and staff deputed from KVWSMB.

This first **Quarterly Operation Report for FY 2065/66 (2008/2009)** covering the first quarter period of 1 Shrawan – 30 Ashwin 2065 (16 July – 16 October 2008) gives the details of the performance of KUKL with respect to the service standard described in the Service Standard Appendix of the License.

### ***Description of Service Area and Services***

There has been no change in the service area and services provided by KUKL during the reporting period.

### ***Tariff Structure***

The current tariff structure has been in effect from 17 September 2004. KUKL has prepared a proposal for tariff revision based on inflation. This proposal is under consideration by the Tariff Commission.

### ***Service Standards Required***

The performance and service standards stipulated in the service license are applicable after some more areas. KUKL is currently undertaking operational and capital investment improvement towards meeting those standards.

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## **WATER QUALITY STANDARDS**

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The water quality standards applicable under the License are as set out as the “Water Quality Standards”. WHO water quality standards are adopted for Nepal but national water quality standards supersede the WHO standard, where available.

A monitoring program was formulated by the Water Quality Unit and the Plan has been implemented from May 2008. The Unit is presently focusing on the control of free residual chlorine, iron and ammonium.

The Water Quality Unit carried out free residual chlorine and other analysis of the distribution network with different branches. Random Residual Chlorine tests from different branches were carried out of 522, 743 and 462 samples, respectively, in Shrawan, Bhadra and Ashwin. Similarly, other water quality analysis (Turbidity, color, pH, iron and ammonia) were carried out of 180, 246 and 216 samples, respectively, in the first three months of this fiscal year. Chemical and biological tests of 40 samples raw water sources (surface and groundwater) were carried out in the reporting period.

A summary of water quality tests for the months of Shrawan – Ashwin is presented below.

**Shrawan 2065 (July/August 2008)**

SN	Branch	Residual Chlorine		No. of Samples	Other Analysis							
		No of samples (tests)			Turbidity [5NTU, 1NTU (TS)]		Iron (mg/l)		Color	pH	Ammonia/ Ammonium [1.5 mg/l]	
		Samples Tested	No. of tests Failed (Residual Chlorine <0.1)		<5	>5	<0.3	>0.3	< 15 true color units	6.5 - 8.5	<1.5	>1.5
1	Mahankal Chaur	175	15	2	1	1	1	1	2	2	2	0
2	Maharjgunj	33	1	13	10	3	10	3	13	12	13	0
3	Baneswor	63	21	15	12	3	12	3	15	15	12	3
4	Kamaladi	11	4	18	15	3	15	3	18	18	17	1
5	Chhetrapati	27	27	24	13	3	13	3	16	16	15	1
6	Tripureswor	101	29	80	33	47	33	47	80	80	41	39
7	Bhaktapur	0	0	0	0	0	0	0	0	0	0	0
8	Madhyapur Thimi	65	0	0	0	0	0	0	0	0	0	0
9	Lalitpur	47	22	22	17	5	17	5	22	22	20	2
10	Kirtipur	0	0	6	6	0	6	0	6	6	6	0
<b>Total</b>		<b>522</b>	<b>119</b>	<b>180</b>	<b>107</b>	<b>65</b>	<b>107</b>	<b>65</b>	<b>172</b>	<b>171</b>	<b>126</b>	<b>46</b>

**Bhadra 2065 (August/September)**

SN	Branch	Residual Chlorine		Other Analysis								
		No of samples (tests)		No. of Samples	Turbidity [5NTU, 1NTU (TS)]		Iron (mg/l)		Color	pH	Ammonia/ Ammonium [1.5 mg/l]	
		Samples Tested	No. of tests Failed (Residual Chlorine <0.1)		<5	>5	<0.3	>0.3	< 15 true color units	6.5 - 8.5	<1.5	>1.5
1	Mahankal Chaur	192	15	22	18	4	18	4	22	22	22	0
2	Maharjgunj	132	2	14	9	5	9	5	14	14	10	4
3	Baneswor	95	62	33	22	11	22	11	33	33	25	8
4	Kamaladi	6	4	6	6	0	6	0	6	6	6	0
5	Chhetrapati	33	11	17	13	4	13	4	13	13	13	4(p)
6	Tripureswor	130	37	89	49	40	49	40	89	89	53	36
7	Bhaktapur	0	0	9	3	6	3	6	9	9	5	4
8	Madhyapur Thimi	75	0	18	12	6	12	6	18	18	16	2
9	Lalitpur	71	34	25	23	2	23	2	25	25	25	0
10	Kirtipur	9	7	12	10	2	10	2	12	12	11	1
<b>Total</b>		743	172	245	165	80	165	80	241	241	186	59

**Ashwin 2065 (September/October 2008)**

SN	Branch	Residual Chlorine		Other Analysis								
		No of samples (tests)		No. of Samples	Turbidity [5NTU, 1NTU (TS)]		Iron (mg/l)		Color	pH	Ammonia/ Ammonium [1.5 mg/l]	
		Samples Tested	No. of tests Failed (Residual Chlorine <0.1)		<5	>5	<0.3	>0.3	< 15 true color units	6.5 - 8.5	<1.5	>1.5
1	Mahankal Chaur	75	0	6	6	0	6	0	6	6	6	0
2	Maharjgunj	89	0	35	24	11	26	9	35	35	34	1
3	Baneswor	50	47	39	37	2	37	2	39	39	36	3
4	Kamaladi	0	0	0	0	0	0	0	0	0	0	0
5	Chhetrapati	25	9	8	0	8	0	8	8	8	0	8
6	Tripureswor	97	30	54	24	30	24	30	54	54	21	33
7	Bhaktapur	5	0	5	3	2	2	3	5	5	3	2
8	Madhyapur Thimi	56	1	4	3	1	3	1	4	4	3	1
9	Lalitpur	35	21	35	29	6	29	6	35	35	32	3
10	Kirtipur	30	19	30	30	0	30	0	30	30	30	0
<b>Total</b>		<b>462</b>	<b>127</b>	<b>216</b>	<b>156</b>	<b>60</b>	<b>157</b>	<b>59</b>	<b>216</b>	<b>216</b>	<b>165</b>	<b>51</b>

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## **CAPITAL INVESTMENT AND ASSET MANAGEMENT**

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ADB assisted short term consultants and PPTA are assisting KUKL in preparing a detailed Capital Investment and Management Plan (CIAMP) which will be submitted to KVMSMB after 18 months of the start date as per the license requirement.

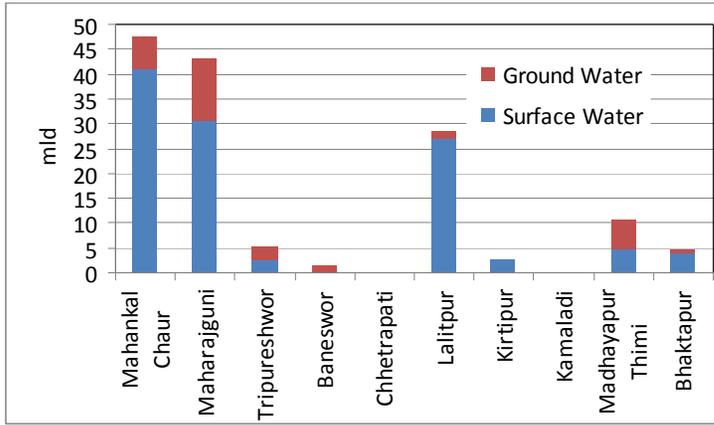
The following packages are in the process of detailed design and tendering under ADB funding:

- Water Revenue Meters
- Spare Pipes and Fittings
- Tools and Equipment
- Bulk Meters, Ultrasonic flow meters and appurtenances
- Tankers

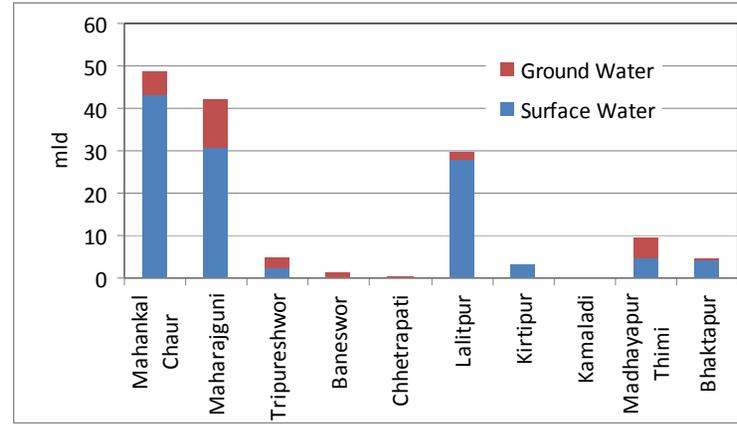
## SERVICE SYSTEM

### Water Production Report (Estimate)

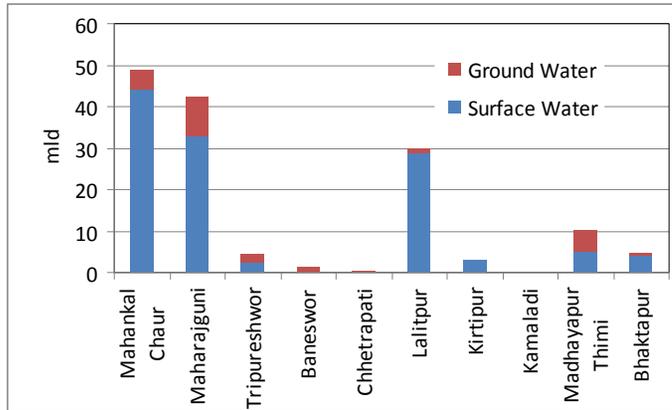
<b>Shrawan 2065 (July/August 2008)</b>											
Branch	Mahankal Chaur	Maharajguni	Tripureshor	Baneswor	Chhetrapati	Lalitpur	Kirtipur	Kamaladi	Madhyapur Thimi	Bhaktapur	Total
Surface Water	41.0	30.8	2.5	0.0	0.0	27.0	2.9	0.0	5.0	4.0	113.2
Ground Water	6.4	12.3	2.6	1.7	0.2	1.7	0.0	0.0	5.8	0.7	31.4
Total [mld]	47.4	43.1	5.1	1.7	0.2	28.7	2.9	0.0	10.8	4.7	144.6
<b>Shrawan (32d) [ml]</b>	<b>1517.4</b>	<b>1379.5</b>	<b>164.5</b>	<b>53.8</b>	<b>4.8</b>	<b>917.8</b>	<b>92.8</b>	<b>0.0</b>	<b>344.3</b>	<b>151.0</b>	<b>4625.9</b>
<b>Bhadra 2065 (August/September 2008)</b>											
Surface Water	43.0	30.8	2.5	0.0	0.0	28.0	3.1	0.0	5.0	4.0	116.4
Ground Water	5.8	11.2	2.4	1.5	0.4	1.5	0.0	0.0	4.6	0.7	28.0
Total [mld]	48.8	42.0	4.9	1.5	0.4	29.5	3.1	0.0	9.6	4.7	144.4
<b>Bhadra (31d) [ml]</b>	<b>1512.2</b>	<b>1301.1</b>	<b>151.3</b>	<b>46.8</b>	<b>11.8</b>	<b>914.8</b>	<b>96.1</b>	<b>0.0</b>	<b>297.0</b>	<b>144.2</b>	<b>4475.2</b>
<b>Ashwin 2065 (September/October 2008)</b>											
Surface Water	44.0	32.9	2.5	0.0	0.0	28.8	3.1	0.0	5.0	4.0	120.3
Ground Water	4.9	9.5	1.8	1.3	0.4	0.9	0.0	0.0	5.1	0.6	24.5
Total [mld]	48.9	42.4	4.3	1.3	0.4	29.7	3.1	0.0	10.1	4.6	144.8
<b>Ashwin (30d) [ml]</b>	<b>1466.1</b>	<b>1271.7</b>	<b>127.5</b>	<b>40.2</b>	<b>12.6</b>	<b>891.3</b>	<b>93.0</b>	<b>0.0</b>	<b>303.9</b>	<b>137.4</b>	<b>4343.7</b>



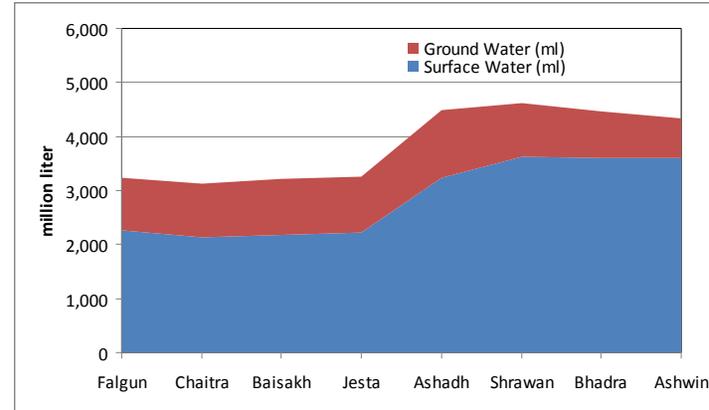
Water Production Report - Shrawan 2065 (July/August 2008)



Water Production Report - Bhadra 2065 (August/September 2008)



Water Production Report – Ashwin 2065 (September/October 2008)



Monthly Production (Falgun 2064 – Ashwin 2065)

A month-wise summary is presented below:

2065/66 (2008/09)	Jul/Aug	Aug/Sep	Sep/Oct
	Shrawan	Bhadra	Ashwin
Surface Water (ml/month)	3,233	3,622	3,608
Ground Water (ml/month)	1,248	1,004	867
<b>Total (ml/month)</b>	<b>4,481</b>	<b>4,626</b>	<b>4,475</b>
<b>m<sup>3</sup>/month/connection</b>	<b>28.009</b>	<b>28.912</b>	<b>27.970</b>
<b>m<sup>3</sup>/day/connection</b>	<b>0.904</b>	<b>0.904</b>	<b>0.902</b>

## SUMMARY OF BRANCH ACTIVITIES

S.N.	Report on	Shrawan (Jul-Aug)	Bhadra (Aug-Sep)	Ashwin (Sep-Oct)	Total
1	Injection Points installed (No.)	1	5	6	12
2	Tanker Vehicles for Distribution (No.)	293	386	524	1203
3	Tanks installed (No.)	0	0	0	0
4	Leaks identified (No.)	743	656	659	2058
5	Leaks repaired (No.)	630	604	582	1816
6	Pipes repaired (meters)	69	513	32	614
7	PublicTap installed (No.)	0	0	0	0
8	Connection changed (No.)	148	141	115	404
9	New consumer connection (No.)	713	655	643	2011
10	New Meter Installed (No.)	240	204	218	662
11	Water meter repaired (No.)	289	294	187	770
12	Bleaching Powder used (Kg)	20589	22889	21675	65153
13	Alum used(Kg)	12570	12085	8380	33035
14	PAC used(Kg)	4855	4625	4500	13980
15	Caustic Soda used (Kg)	550	1650	1300	3500
16	Lime used (Kg)	0	1500	700	2200
17	All Staff of 10 Branches (No.)	1044	1046	1045	3135
18	Technical Staff of 10 Branches (No.)	488	490	490	1468
19	Admin. & Acc. Staff employed of 10 Branches; (No.)	556	556	555	1667

## TANKER UNIT

The Tanker Unit will receive some 10 new Tankers under the ADB funding. Plans will be worked out (Tanker Plan) to improve the performance of the Unit.

The tanker operations during the reporting period are as follows:

S.N.	Particulars	Shrawan	Bhadra	Ashwin	Total
1	Total Number of Trips (no.)	1,428	1,641	1,580	4,649
2	Number of Public trip (no.)	704	742	743	2,189
3	Total Billing of Public trip (Rs.)	684,360	788,030	750,820	2,223,210
4	Number of Private trips (no)	724	849	837	2,410
5	Total Billing of private trip (Rs.)	802,360	903,580	875,380	2,581,320
6	Billing of others income (Rs.)	256,726	291,203	274,815	822,744
7	Total billing without public trips (Rs.)	1,059,086	1,194,783	1,150,195	3,404,064
8	Cash income (Rs.)	581,466	963,181	678,515	2,223,162
9	Total billing with Private and public (Rs.)	1,743,445	1,982,813	1,901,015	5,627,273
10	Collection Ratio (%)	55%	81%	59%	65%

## COMPLETED PROJECTS

	Name of Project	Target	Remarks
<b>1</b>	<b>Production</b>		
1.1	Koteswor, Tyanglaphat, Sinamangal, Kanya Mandir, Koteswor Tubewell Connection*	4 mld	Advanced stage for commissioning, electrification, interconnection and pump installation are to be done.
1.2	Khadga Bhadrakali Water* Supply (Tube well)	1 mld	
1.3	Mahankal Water Supply (Tube well)*	1 mld	
1.4	Muldole Water Supply (Tube well)*	1 mld	
1.5	Sangle Khola Water Supply (Tube well)*	1 mld	
<b>2</b>	<b>Distribution Network Extension</b>		
2.1	Omkar Marg Pipeline	700 m	Completed
2.4	Kirtipur Pipeline	588 m	Completed
2.5	Kharipati Water Supply	500 m	Completed
2.6	Community Pipeline	25,000 m	Completed
<b>3</b>	<b>Sewerage</b>		
3.1	Boharatar Sewerage System	300 m	Completed

## KUKL CENTRAL PROCUREMENT

The procurement undertaken by KUKL Central Procurement Department in the reporting period are as follows:

S.N	Description of Goods	Qty	Unit	Estimated Amount in (000)	Status	Procurement	Suppliers	Delivery
1	Stable Bleaching Powder	100	M.T	1,800	Delivered	Direct	World Health Organization	65/04
2	G.I. Pipes	16.3	km	11,500	Delivered	Tender	Hulas Steel Industries	65/05
3	Official Document Printing	LS	LS	130	Delivered	Tender	Triyuga Offset Press, Ktm.	65/06
4	Submersible Pumps & Cable	1	Set	499	Delivered	Direct	Shrestha Water House, Ktm	65/06
<b>Total Amount</b>				<b>13,929</b>				

## TRAININGS

The following trainings were conducted during the reporting period:

S.N.	Trainings	Date	No's of Participants	Remarks
1	Assessment and Monitoring of Water Quality	27-31 July	37	
2	Unaccounted for Water (UFW) Reduction for Network Repair and Maintenance	6-12 August	48	.
3	Emergency WASH training with focus on recurring emergencies	August 2008	3	Financed and organized by UNICEF
4	Basic Plumbing Course	1-25 September	85	
5	Water Quality and Treatment Plant	8-12 September	18	

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**FINANCIAL STATUS**

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