



# QUARTERLY REPORT BOTTLED WATER QUALITY

(October-December, 2013)



**PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES**

**Ministry of Science & Technology**

**Khyban-e-johar, H-8/1, Islamabad.**

[www.pcrwr.gov.pk](http://www.pcrwr.gov.pk)

October-December, 2013



## SUMMARY

The poor quality of drinking water has forced a large cross-section of citizens to buy bottled water. However, many of the mineral water companies were found selling contaminated water. To monitor and improve the quality of bottled water, the government of Pakistan through Ministry of Science and Technology has designated the task for quarterly monitoring of bottled/mineral water brands to PCRWR. According to the monitoring report for the quarter July-September, 2013 following is the brief overview of the findings.

### Quarterly Monitoring of Bottled/Mineral Water (October-December, 2013)

<b>No. of Brands Collected</b>	<b>95</b>
<b>No. of Cities Targeted</b>	<b>15</b> (Islamabad, Rawalpindi, Lahore, Faisalabad, Sialkot, Sargodha, Sahiwal, Bahawalpur, D.G.Khan, Multan, Tandojam, Karachi, Quetta, D.I Khan and Peshawar).
<b>No. of Overall safe brands</b>	<b>72</b>
<b>overall unsafe brands</b>	<b>23</b>  (i.e. Aqua , Premier, Aqua National, Kalash Pure Water, Panda, Fine Soul, Bliss Water, Cool, Rahat, Total, Kinley, Al-Habib, Aqua Life, Safi, Aqua Save, Life, Jami Water, Butt, Aqua Safe, Deosai, Valley Pureza & Ideal Life).
<b>Chemically unsafe brands</b>	<b>17</b>  <b>For Arsenic</b> (Aqua , Premier, Aqua National, Kalash Pure Water, Panda, Fine Soul, Bliss Water, Cool,Rahat,Total,Life,and Butt)  <b>For Sodium</b> ( Aqua, , Premier , Kinley, Al-Habib, Total, Aqua Life)  <b>For Fluoride</b> ( Pureza & Ideal Life )  <b>TDS</b> Aqua Life
<b>No. of Microbiologically safe brands</b>	<b>87</b>
<b>Microbiologically unsafe brands</b>	<b>08</b>  (Safi, Aqua Save, Life, Jami Water, Butt, Aqua Safe, Deosai &Valley)



## INTRODUCTION

Drinking water quality is deteriorating continually due to biological contamination from human waste, chemical pollutants from industries and agricultural inputs. Piped water also gets contaminated because pipes are laid very close to sewerage lines or open drains and cause many serious water borne diseases. It was found that 45% of infant deaths have been attributed to diarrhea and about 60% to overall infectious waterborne diseases in Pakistan. According to the World Health Organization (WHO) 25-30% of the diseases are gastro-intestinal in nature. The poor quality of drinking water has forced a large cross-section of citizens to buy bottled water. As a consequence of this expanding market a mushroom growth of bottled water industry in the country is witnessed during the last few years. However, many of the mineral water companies were found selling contaminated water. To monitor and improve the quality of bottled water, the government of Pakistan has designated the PCRWR as focal point agency.

1. Ministry of Science & Technology informed PCRWR Vide U.O. No. 5(21)/2004-ATA-II dated 17.10.2005 that the Cabinet in its meeting under the chairmanship of Prime Minister directed Ministry of Science & Technology to undertake regular survey/samples of bottled/mineral water at source of production, publicize the results on a quarterly basis and follow up with punitive/legal action.
2. Ministry of Science & Technology has assigned the task of quality monitoring of bottled water and publicize the results to PCRWR Vide U.O. No.1(1)/2005-Secy (MoST) dated 8.12.2005.

## PCRWR SAMPLING METHODOLOGY

No. of Brands Collected	95	
No. of Cities Targeted	15 (Islamabad, Rawalpindi, Lahore, Faisalabad, Sialkot, Sargodha, Sahiwal, Bahawalpur, D.G.Khan, Multan, Tandojam, Karachi, Quetta, D.I Khan and Peshawar).	
Composition of Sampling Team	One Research Officer and Two Laboratory Assistants	
Sampling Procedure	Samples of Ninety five commercially available brands of mineral/bottled water are collected from source of production (bottled water plants) as well as from local market of fifteen cities of Pakistan. These samples are collected by the senior staff members of Head Office and Regional Offices of PCRWR during October-December, 2013. A set of four bottles of each brand was collected and sealed on site. Identification codes are allotted to all the brands according to PCRWR Bottled Water Classification System.	
Transparency	Sample No. 1	Handed over to shopkeeper at the time of sample collection;
	Sample No. 2	Preserved in the National Water Quality Laboratory of PCRWR, Islamabad for future record,
	Sample No. 3	Used for Microbiological Analysis
	Sample No. 4	Used for Physico-chemical Analysis

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



**PCRWR BOTTLED WATER CLASSIFICATION SYSTEM**

Sr. No	Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer
1	Hi-Fresh	BWZ-01	Sargodha	03/10/2013	05/2014	1.5 Liter	Awais Cold Corner 47 Adda Sargodha	NBFC Pakistan Madina Farms 84-N.B,Sargodha Pakistan
2	Aqua	BWZ-02	Sargodha	03/10/2013	-	1.5 Liter	Raja Hotel, Near Railway Station Sargodha	Zafir Industries Plot#55 Shadi Pura Bund Road Lahore
3	Super Natural	BWZ-03	Sargodha	03/10/2013	-	1.5 Liter	Tariq Pan Shop 47-Adda Sargodha	WELL-O(Pvt)Ltd p-958 St#12 Muhammad A bad Faisalabad
4	Active Pure Drinking Water	BWZ-04	Sargodha	03/10/2013	01/2014	0.6 Liter	Al-Imran General Store Gillwala Chowk, Sargodha	Active Water Services Jandaren Plaza Canal Park 47 Pull Sargodha
5	Khush Aab	BWZ-05	Sargodha	03/10/2013	-	0.6 Liter	A Project Of Sargodha	A Project Of Sargodha
6	Sufi	BWZ-06	Sargodha	03/10/2013	02/2015	0.6 Liter	Bismillah Medical & General Store Near DHQ Hospital	Hadayat Foods Stuffs Industries(Pvt)Ltd 1-B Garden Block Garden Town Lahore
7	Crystal Pure Water	BWZ-07	Sargodha	03/10/2013	05/2014	0.6 Liter	Al-Imran General Store Gillwala Chowk, Sargodha	Crystal Group Plot#24,Old Civil Line Mela mandi Road Sargodha
8	Blu Water	BWZ-08	Sargodha	03/10/2013	04/2014	0.6 Liter	Moon General Store Shama Chowk Sarodha	Al-Hilal Industries(Pvt)Ltd Sultan Nagar Vehari Road Multan
9	Gourmet	BWZ-09	Sargodha	03/10/2013	10/2013	0.6 Liter	Shahbaz General Store G.B Stand Sargodha	Gourmet Foods Gate#1,Plot#1-5,Sunder Industrial Estate Raiwind Sunder Road Lahore
10	Premier	BWZ-10	Sargodha	03/10/2013	06/2014	0.6 Liter	Raja Hotel, Near Railway Station Sargodha	Zafir Industries 19-km,Near Highnoon Laboratories Multan Road Lahore
11	Safi	BWZ-11	D.I.Khan	22/10/2013	07/2014	1.5 Liter	Safi water Plant Opp. Qurtaba University D.I.Khan	Chashma mineral water near Grid Station D.I.Khan
12	Himalaya Cool	BWZ-12	D.G.Khan	11/10/2013	07/2014	0.6 Liter	Gulzar Medical Store Near D.H.Q D.G.Khan	Himalaya Enterprises Balakh Sarwar City jamPur Road D.G.Khan
13	Ultra Pak	BWZ-13	D.G.Khan	10/10/2013	-	0.6 Liter	Mosa & Sons Near D.H.Q Jam Pur Road D.G.Khan	Ultra Pak Water Industries Shahzada Sultan Town Near Sufi Khalil CNG Pump Dera Ghazi Khan
14	Crystal Clear	BWZ-14	D.G.Khan	10/10/2013	-	0.6 Liter	Gulzar Medical Store Near D.H.Q D.G.Khan	Ali Khan 555 Beverages Company No.12 Cannal View Town Sahiwal

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



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15	Bless	BWZ-15	D.G.Khan	10/10/2013	04/2014	0.6 Liter	Gulzar Medical Store Near D.H.Q D.G.Khan	Water World: Indus Highway D.G.Khan Waterworld_dgk@hotmail.com
16	Nestle	BWZ-16	Faisalabad	28/10/2013	03/2015	0.5 Liter	Adnan General Store Chowk Akbarabad Faisalabad	308-Upper Mall Lahore 54000 Pakistan
17	Kisan Better Life	BWZ-17	Faisalabad	28/10/2013	08/2013	0.6 Liter	Mehar Asif and Kashif Karyana Store Faisalabad	Faisalabad Oil Refinery(Drinking Water Division) www.kiisan.com.pk
18	NN Water	BWZ-18	Faisalabad	28/10/2013	05/2014	0.6 Liter	Mehar Asif and Kashif Karyana Store Faisalabad	NN Premium Water Factory Khanewal E-Mail:npwater@hotmail.com
19	Springley	BWZ-19	Faisalabad	28/10/2013	03/2015	0.5 Liter	Adnan General Store Chowk Akbarabad Faisalabad	Qureshi Industries(Pvt)Ltd Hattar (N.W.F.P) Pakistan
20	Vaskaro	BWZ-20	Quetta	11/10/2013	-	1.5 Liter	Famous Bakery Civil Hospital Quetta	Mashk Enterprises:B-17 Industrial Area Shikarpur Road Sukkur
21	Kinley	BWZ-21	Quetta	11/10/2013	08/2014	1.5 Liter	New Samad Medical Store Quetta	Coca Cola Beverages Pakistan Limited (CCBPL) S-E-11 Gulberg -III Lahore
22	Aqua Hygienic	BWZ-22	Quetta	11/10/2013	-	1.5 Liter	New Samad Medical Store Quetta	Zauhras:Plot#2,St#1 2 Faisal Town Brewery Road Quetta
23	Noble	BWZ-23	Quetta	11/10/2013	2015	1.5 Liter	Famous Bakery Civil Hospital Quetta	Tower Market Hakeem Habib Road Hyderabad Pakistan
24	Standard	BWZ-24	Quetta	11/10/2013	-	1.5 Liter	Famous Bakery Civil Hospital Quetta	Standard(Private) Industries Ltd.Plot#48-B Eastern Industries Area Pakistan
25	Pureza	BWZ-25	Quetta	11/10/2013	-	1.5 Liter	Famous Bakery Civil Hospital Quetta	A Product Of Pureza International TEL# 0 21-36687013
26	Kalash Pure Water	BWZ-26	Multan	01/11/2013	08/2013	1.5 Liter	Souk Super Store Bosan Road Multan	Al-Rahman Enterprises Ali Hijwari Arcade Kutchery Road Multan
27	Aquafina	BWZ-27	Multan	01/11/2013	09/2014	1.5 Liter	Faisal Mover Tuck Shop Faisal Mover Terminal Multan	Haidri Beverages Private Limited CDA Industrial Triangle Kahuta Road Islamabad
28	Lite Aqua	BWZ-28	Multan	01/11/2013	10/2013	1.5 Liter	Ali Raza Drink Corner Chowk Shah Abbas Multan	Lite Aqua Minerals:D-81 Mahmood Abad Multan
29	Panda	BWZ-29	Multan	04/11/2013	-	0.6 Liter	Pace & Pace Main Bosan Road Multan	Pace & Pace, Main Bosan Road Multan

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



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30	Aqua 7	BWZ-30	Multan	04/11/2013	02/2014	0.6 Liter	Pulse International Water Company 4, H.T.E.Z Old Bulda Road Multan	Pulse International Water Company 4, H.T.E.Z Old Budla Road Multan
31	Fine Soul	BWZ-31	Multan	05/11/2013	-	0.6 Liter	Tayyab Medical Store Multan	Sky Beverages:Bosan Road Shalimar Colony Multan
32	Oasis	BWZ-32	Multan	04/11/2013	07/2014	0.6 Liter	Nasir Hameed Drink Corner General Bus Stand Multan	All Water Care Services:M.A Jinnah Road Bodhla Town Near Qasori Chowk Multan
33	Healthy Water	BWZ-33	Tando Jam	07/11/2013	-	0.6 Liter	New Memon Medical & General Store Tando Qaiser Road Tando Jam	19/4,Near Fareed Plaza Liaquat Colony Industrial Area Hyderabad
34	Crystal Lite	BWZ-34	Tando Jam	07/11/2013	08/2014	0.5 Liter	Babu Water Services & Auto Parts Mini Mart &Petroleum Service Mirpurkhas Road Tando Jam	F-75, Gate -2,S.I.T.E Karachi Pakistan
35	OSLO	BWZ-35	Tando Jam	07/11/2013	06/2014	0.6 Liter	New Memon Medical & General Store Tando Qaiser Road Tando Jam	Oslo International 14 Ramzan Chamber Dr.Bill Moria St.Off 1.1 Chundigar Road Karachi
36	Pearl	BWZ-36	Tando Jam	08/11/2013	11/2014	0.6 Liter	S.Q.B.S Enterprises:14 4/68 Km Near Toll Plaza Super Highway Jamshoro	S.Q.B.S Enterprises:144/68 Km Near Toll Plaza Super Highway Jamshoro
37	Al-Habib	BWZ-37	Karachi	06/11/2013	06/2015	0.6 Liter	Haroon Medical &G.Store Old Muzaffarabad Landhi Karachi	E-10 Al-Azam Square F.B Block-1 Karachi
38	Ideal Life	BWZ-38	Karachi	06/11/2013	12/2014	0.6L iter	Haroon Medical &G.Store Old Muzaffarabad Landhi Karachi	Plot#B-9/B-1 Office# 37.5 p Chamber Site Karachi
39	Jel	BWZ-39	Karachi	06/11/2013	12/2013	0.6L iter	Haroon Medical &G.Store Old Muzaffarabad Landhi Karachi	Mega Fine Industries Plot#A-92 Malir Industrial Area Malir Karachi
40	IQRA FINU	BWZ-40	Karachi	06/11/2013	12/2014	0.6 Liter	Ibrahim G.Store Abdullah Goth Near Landhi Hospital Karachi	IQRA Finu&Co.

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



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41	Orion	BWZ-41	Karachi	07/11/2013	-	0.6 Liter	Al-Madina G.Store S2,Area Malir Karachi	Orion Foods Site E-1,Suite #2,Defance View Phase-11,Karachi
42	Drizzling	BWZ-42	Karachi	06/11/2013	-	0.6 Liter	Abdul Baqi&rothers Karyana Store Quaidabad Landhi Karachi	Gadap Town Malir Karachi
43	Vey	BWZ-43	Karachi	06/11/2013	10/2015	0.6 Liter	Ibrahim G.Store Abdullah Goth Near Landhi Hospital Karachi	Fluid Technology Int'l(Pvt)Ltd 424,Bhayani Center Block
44	Miracle	BWZ-44	Karachi	08/11/2013	-	1.5 Liter	Super Kaakar Gift Centre Main University Road Safora Chorangi Karachi	The Miracle Product(Pvt)Ltd Plot#WSA-23,Block-14,F.B Area Karachi
45	Al-Massafi	BWZ-45	Karachi	07/11/2013	-	1.5 Liter	Al-Madina G.Store S2,Area Malir Karachi	Al-Masafi Foods Plot#S-3,S-4,Malir City Karachi
46	Zindagi	BWZ-46	Karachi	08/11/2013	-	1.5 Liter	New Pak Sweet&Nimko Shop#23,24 Tokyo Safora Chorangi Karachi	A Product Of Zindagi International
47	Crystal Maya	BWZ-47	Karachi	07/11/2013	-	1.5 Liter	Shop#36,37 Al-Ateeq Market Landhi Karachi	Tilon Global Off:B-221,226 Hub Baluchistan
48	Sprinkle	BWZ-48	Karachi	07/11/2013	06/2015	1.5 Liter	Shop#36,37 Al-Ateeq Market Landhi Karachi	Al-Habib Enterprises :E-10 Al-Azam Square F.B Block-1 Karachi
49	Spring Fresh	BWZ-49	Karachi	07/11/2013	12/2015	1.5 Liter	Bismillah Bakery Malir Area Karachi	A-71/1,Shaniabad F.B Area Karachi
50	Aqua Vida	BWZ-50	Karachi	07/11/2013	09/2014	1.5 Liter	Bismillah Bakery Malir Area Karachi	Habib Consumer Products(Pvt)Ltd Plot#80-A,B,C Sector 27,Korangi Industrial Area Karachi
51	Sparkle	BWZ-51	Bahawalpur	12/11/2013	06/2014	0.5 Liter	Fajar Technical Trading Plot#11-12,Water Avenue Off Katcha jail Road Kot Lakhpat Lahore	Fajar Technical Trading Plot#11-12,Water Avenue Off Katcha jail Road Kot Lakhpat Lahore
52	Pineo	BWZ-52	Bahawalpur	12/11/2013	10/2014	1.5 Liter	Gysing Pak PSIE,Bahawalpur Gysing@live.com	Gysing Pak PSIE,Bahawalpur Gysing@live.com

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



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53	Aqua Save	BWZ-53	Sialkot	19/11/2013	11/2014	0.6 Liter	SFS Mineral Water Company Wazirabad Road JalianWala Ugoki Sialkot	SFS Mineral Water Company Wazirabad Road JalianWala Ugoki Sialkot
54	ECO	BWZ-54	Sialkot	18/11/2013	11/2014	0.6 Liter	J&J Foods Beverages Roras Road Naul Chowk Sialkot	J&J Foods Beverages Roras Road Naul Chowk Sialkot
55	Rise Water	BWZ-55	Sialkot	19/11/2013	-	0.6 Liter	Pure Foods Sialkot 3-km Kingra Road Sialkot	Pure Foods Sialkot 3-km Kingra Road Sialkot
56	Isberg	BWZ-56	Sialkot	18/11/2013	-	0.6 Liter	Premier Water Refining Company Dhabola Roras Road Sialkot	Premier Water Refining Company Dhabola Roras Road Sialkot
57	AI-SHALAL	BWZ-57	Sialkot	19/11/2013	08/2014	0.6 Liter	Premier Water Refining Company Dhabola Roras Road Sialkot	AZO Enterprises Seokay 14-km, Sialkot Aimanabad Road Sialkot
58	VINA	BWZ-58	Sialkot	18/11/2013	11/2014	0.6 Liter	Premier Water Refining Company Dhabola Roras Road Sialkot	AI-Sultan Beverages Industries, Chaprar Road Gul Bahar Kalan Sialkot
59	Life	BWZ-59	Lahore	01/11/2013	12/2014	1.5 Liter	Canteen at Tableeghi Ijtima Raiwind Lahore	Helpline # 042-37490404
60	Oxigzyzer	BWZ-60	Lahore	31/10/2013	05/2014	1.5 Liter	Gul e Damin Society Industrial Area College Road Lahore E-	Gul e Damin Society Industrial Area College Road Lahore E- Mail: info@oxigzyzer.com, 042-35146280
61	Jami Water	BWZ-61	Lahore	31/10/2013	10/2014	1.5 Liter	Al- Jannat Chowk College Road Lahore (Township)	Jami Water Services Thokar Chowk College Road Township Lahore
62	Cannon	BWZ-62	Lahore	01/11/2013	07/2014	1.5 Liter	Canteen at Tableeghi Ijtima Raiwind Lahore	Q.M Beverages :G.T.Road Gujrat
63	Aqua Blue	BWZ-63	Lahore	01/11/2013	-	0.6 Liter	Canteen at Tableeghi Ijtima Raiwind Lahore	1-A, Railway Road Toheed
64	Effort	BWZ-64	Lahore	30/10/2013	8/2014	1.5 Liter	Adnan Medical Store Near Meyo Hospital Lahore	Effort Corporation : 83-A Shadman 11, Lahore Pakistan
65	Doce	BWZ-65	Lahore	30/10/2013	10/2014	1.5 Liter	Doce Bakers & Sweets Sabzazar Lahore	48-M, Quaid-e-Azam Industrial Estate Kot Lakhpat Lahore
66	Butt	BWZ-66	Lahore	30/10/2013	04/2014	1.5 Liter	Butt Sweets Raiwind Road Lahore	Butt Sweet & Bakers 16-Mcleao Road Lakshami Chowk Lahore



PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



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67	Aqua Pure	BWZ-67	Lahore	30/10/2013	07/2015	1.5 Liter	Ajmir Bakers Gulberg Lahore	Aqua Pure (Pvt)Ltd Office #21,1st Floor Leeds Centre 11-E-2,main Boulevard Gulberg 111,Lahore
68	Naimat	BWZ-68	Lahore	04/11/2013	05/2014	1.5 Liter	Water World Boby Plaza Compound Opp.Govt.Munshi Hospital Bund Road Lahore	Water World Boby Plaza Compound Opp.Govt.Munshi Hospital Bund Road Lahore
69	Bliss Water	BWZ-69	Lahore	30/10/2013	04/2014	1.5 Liter	Mubashir Medicos Meyo Hospital Lahore	4,Country Road Opposite Jinnah Hospital Lahore
70	Cool	BWZ-70	Lahore	04/11/2013	12/2014	1.5 Liter	Naveed Pan Shop Near Lari Adda Lahore	M.T Mineral Water Co. B-7 Marghzar Housing Society Lahore
71	Rahat	BWZ-71	Lahore	04/11/2013	-	1.5 Liter	Aziz Bhatti Road Lahore Cantt	Aziz Bhatti Road Lahore Cantt
72	Aqua National	BWZ-72	Lahore	04/11/2013	08/2014	1.5 Liter	Danish Cold Corner Near Lari Adda Lahore	Milli Brothers 8-km,G.T Road Shahdra Lahore
73	Aqua Safe	BWZ-73	Lahore	04/11/2013	10/2014	1.5 Liter	Aqua Safe Pakistan (Pvt)Ltd 96-Mcleod Road Lahore Pakistan	Aqua Safe Pakistan (Pvt)Ltd 96-Mcleod Road Lahore Pakistan
74	OxyWater	BWZ-74	Lahore	31/10/2013	06/2014	0.6 Liter	Muhammad Ijaz College Road Lahore	E-Mail: info@waterworld.com.pk
75	TOTAL	BWZ-75	Lahore	04/11/2013	08/2014	1.5 Liter	Nasir Pan Shop Near Lari Adda Lahore	S.J.Foods: A Product of S.J Foods 9-km Multan Road Lahore
76	Classic	BWZ-76	Lahore	04/11/2013	04/2014	1.5 Liter	Classic Needs Pakistan(Pvt)Ltd 35-N.Industrial Area Gulberg 11,Lahore	Classic Needs Pakistan(Pvt)Ltd 35-N.Industrial Area Gulberg 11,Lahore
77	Water Plus	BWZ-77	Islamabad	27/11/2013	09/2014	0.5L iter	Plot#235,st#6, I-9/2 Industrial Area Islamabad	Plot#235,st#6,I-9/2 Industrial Area Islamabad
78	Venora	BWZ-78	Islamabad	27/11/2013	-	0.5 Liter	Plot#238,1-9/3 Islamabad	Plot#238,1-9/3 Islamabad
79	Water Empire	BWZ-79	Islamabad	27/11/2013	-	1.5 Liter	Plot#8,St#4,I-10/3 Industrial Area Islamabad	Plot#8,St#4,I-10/3 Industrial Area Islamabad
80	Deosai	BWZ-80	Islamabad	27/11/2013	-	1.5 Liter	Margalla Foods & Beverages Plot#32,Khaya bane Johar Industrial Area Sector 1-9/2 Islamabad	Margalla Foods & Beverages Plot#32,Khaya bane Johar Industrial Area Sector 1-9/2 Islamabad

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



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81	Valley	BWZ-81	Islamabad	27/11/2013	12/2013	1.5L iter	Plot#277,St#1, 1-9/3 Industrial Area Islamabad	Plot#277,St#1,1-9/3 Industrial Area Islamabad
82	Hydra	BWZ-82	Islamabad	27/11/2013	-	1.5 Liter	Plot#31-A,I-9,Industrial Area Islamabad	Plot#31-A,I-9,Industrial Area Islamabad
83	Hayat	BWZ-83	Islamabad	27/11/2013	-	1.5 Liter	Plot#140,St#9, 1-10/3 Islamabad	Plot#140,St#9,1-10/3 Islamabad
84	Natural Aqwah	BWZ-84	Peshawar	11/12/2013	01/2015	0.6 Liter	RG enterprises Plot#1 41-A Industrial Estate Hayatabad Peshawar	RG enterprises Plot#1 41-A Industrial Estate Hayatabad Peshawar
85	Aquatic Fresh	BWZ-85	Peshawar	11/12/2013	11/2014	0.6 Liter	Royal Food Industries Plot#1-C Industrial Estate Jamrud Road Peshawar KPK Pakistan	Royal Food Industries Plot#1-C Industrial Estate Jamrud Road Peshawar KPK Pakistan
86	Moya Mineral Water	BWZ-86	Peshawar	11/12/2013	04/2015	0.6 Liter	Al-Saudia Enterprises 580/B Main Gulberg Peshawar Cantt	Al-Saudia Enterprises 580/B Main Gulberg Peshawar Cantt
87	Aqua Splash	BWZ-97	Peshawar	11/12/2013	12/2014	0.6 Liter	(Euro International) A-7,Town Centre,Abdara Road University Town Peshawar	(Euro International) A-7,Town Centre,Abdara Road University Town Peshawar
88	NEBRASKA	BWZ-88	Peshawar	11/12/2013	11/2014	0.6 Liter	12-C Industrial Estate Hayatabad Peshawar	12-C Industrial Estate Hayatabad Peshawar
89	Aab-E Taskeen	BWZ-89	Sahiwal	10/12/2013	11/2014	0.6 Liter	Lucky Innovative Products:52-C,Small Industrial Estate Sahiwal	Lucky Innovative Products:52-C,Small Industrial Estate Sahiwal
90	Minter	BWZ-90	Sahiwal	10/12/2013	12/2013	0.6 Liter	Petals Food:561/BV1 1,Police Lines Road Sahiwal	Petals Food:561/BV11,Police Lines Road Sahiwal
91	Vital Happy Life	BWZ-91	Sahiwal	10/12/2013	05/2014	0.6 Liter	Al-Mansoor 7 km,Multan Road Sahiwal	Al-Mansoor 7 km,Multan Road Sahiwal
92	Freshly	BWZ-92	Sahiwal	10/12/2013	10/2014	0.6 Liter	Arifwala Road Bahawalpur	Arifwala Road Bahawalpur
93	Aqua Life	BWZ-93	Sahiwal	10/12/2013	04/2014	0.6 Liter	Sethi industries Lahore Pakistan	Sethi industries Lahore Pakistan
94	Nectar	BWZ-94	Islamabad	12/12/2013	12/2014	1.5 Liter	Plot # 14/10, Markaz G-7, Islamabad	Plot # 14/10, Markaz G-7, Islamabad

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



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95	Verbena	BWZ-95	Rawalpindi	12/12/2013	10/2014	1.5 Liter	Vizor Pharma (Pvt) Ltd., 82 Lalazar estate Rawalpindi	Vizor Pharma (Pvt) Ltd., 82 Lalazar estate Rawalpindi

**WATER QUALITY PARAMETERS AND METHODS USED FOR ANALYSIS**

Sr. #	PARAMETERS	ANALYTICAL METHOD
1.	Alkalinity (mg/l as CaCO <sub>3</sub> )	2320, Standard method (2005) APHA
2.	Arsenic (ppb)	AAS Vario 6, Analytik Jena AG
3.	Bicarbonate	2320, Standard method (2005) APHA
4.	Calcium (mg/l)	3500-Ca-D, Standard Method (2005) APHA
5.	Carbonate (mg/l)	2320, Standard method (2005)
6.	Chloride (mg/l)	Titration (Silver Nitrate), Standard Method (2005) APHA
7.	Color (TCU)	Sensory Test
8.	Conductivity (μS/cm)	E.C meter, Hach-44600-00, USA
9.	Hardness (mg/l)	EDTA Titration, Standard Method (2005) APHA
10.	Magnesium (mg/l)	2340-C, Standard Method (2005) APHA
11.	Nitrate Nitrogen (mg/l)	Cd. Reduction (Hach-8171) by Spectrophotometer
12.	Odor	Sensory Test
13.	pH	pH Meter, Hanna Instrument, Model 8519, Italy
14.	Potassium (mg/l)	Flame photometer PFP7, UK
15.	Sodium (mg/l)	Flame photometer PFP7, UK
16.	Sulfate (mg/l)	SulfaVer4 (Hach-8051) by Spectrophotometer
17.	Phosphate (mg/l)	8190 and 8048 (Hach)
18.	Taste	Sensory Test
19.	TDS (mg/l)	2540C, Standard method (2005) APHA
20.	Turbidity (NTU)	Turbidity Meter, Lamotte, Model 2008, USA
21.	Fluoride (mg/l)	4500-F C. ion-Selective Electrode Method Standard method (2005) APHA
22.	Iron (mg/l)	FerroVer method (HACH Cat. 21057-69)
23.	Total Coliforms (MPN/100ml)	9221-B,C&D, Standard Methods (2005) APHA
24.	E. Coli (MPN/100ml)	9221-B,C&D, Standard Methods (2005) APHA

**WATER QUALITY PERMISSIBLE LIMITS FOR BOTTLED WATER**

Sr. #	Parameter	Units	Permissible Limits		
			WHO	IBWA	PSQCA
1.	Alkalinity	(mg/l)	NGVS	NGVS	NGVS
2.	Bicarbonate	(mg/l)	NGVS	NGVS	NGVS
3.	Calcium	(mg/l)	NGVS	NGVS	100
4.	Carbonate	(mg/l)	NGVS	NGVS	NGVS
5.	Chloride	(mg/l)	250	250	250
6.	Co lour	(TCU)	15	NGVS	5
7.	Conductivity	(μS/cm)	NGVS	NGVS	NGVS
8.	Fluoride	(mg/l)	1.5	3	0.7
9.	Hardness	(mg/l)	NGVS	NGVS	NGVS
10	Iron	(mg/l)	0.3	0.3	0.3

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



Sr. #	Parameter	Units	Permissible Limits		
			WHO	IBWA	PSQCA
11.	Magnesium	(mg/l)	NGVS	NGVS	50
12.	Odor	-	Odorless	NGVS	Unobjectionable
13.	Nitrate-N	(mg/l)	10	10	10
14.	pH	-	6.5-8.5	NGVS	6.5-8.5
15.	Potassium	(mg/l)	NGVS	NGVS	10
16.	Sodium	(mg/l)	200	NGVS	50
17.	Sulfate	(mg/l)	250	250	250
18.	Taste	-	Unobject.	NGVS	Unobjectionable
19.	TDS	(mg/l)	1000	500	500
20.	Turbidity	(NTU)	5	NGVS	0.5
21.	Phosphate	(mg/l)	NGVS	NGVS	NGVS
22.	Arsenic	ppb	10	10	10
23.	Total Coliforms	MPN/100ml	0	0	0
24.	E-Coli	MPN/100ml	0	0	0

**WHO** World Health Organization  
**IBWA** International Bottled Water Association  
**PSQCA** Pakistan Standards and Quality Control Authority

**SUMMARY OF RESULTS OF PCRWR MONITORING**

**CONTAMINANTS OF POTENTIAL CONCERNS FOUND IN BOTTLED WATER BRANDS**

Arsenic ( Safe Limit : 10ppb)					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Aqua	BWZ-02	Lahore	ppb	39
2.	Premier	BWZ-10	Lahore	ppb	28
3.	Kalash Pure Water	BWZ-26	Multan	ppb	21
4.	Panda	BWZ-29	Multan	ppb	18
5.	Fine Soul	BWZ-31	Multan	ppb	18
6.	Life	BWZ-59	Lahore	ppb	29
7.	Butt	BWZ-66	Lahore	ppb	46
8.	Bliss Water	BWZ-69	Lahore	ppb	18
9.	Cool	BWZ-70	Lahore	ppb	70
10.	Rahat	BWZ-71	Lahore	ppb	18
11.	Aqua National	BWZ-72	Lahore	ppb	65
12.	Total	BWZ-75	Lahore	ppb	15

Fluoride ( Safe Limit : 0.7 ppm)					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Pureza	BWZ-25	Karachi	ppm	0.90
2.	Ideal Life	BWZ-38	Karachi	ppm	0.83

Sodium ( Safe Limit : 50ppm)					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Aqua	BWZ-02	Lahore	ppm	84
2.	Premier	BWZ-10	Lahore	ppm	58
3.	Kinley	BWZ-21	Lahore	ppm	58

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



4.	Al-Habib	BWZ-37	Karachi	ppm	59
5.	Total	BWZ-75	Lahore	ppm	63
6.	Aqua Life	BWZ-93	Lahore	ppm	104

TDS ( Safe Limit : 500ppm)					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Aqua Life	BWZ-93	Lahore	ppm	565

BACTERIOLOGICAL: (Total Coliforms & E Coli) (Safe Limit: 0/100ml)				
Sr. No	Brand Name	Code	Results	
			Total Coliforms (MPN/100ml)	E. Coli (MPN/100ml)
1.	Safi	BWZ-11	7	Nil
2.	Aqua Save	BWZ-53	2	Nil
3.	Life	BWZ-59	4	Nil
4.	Jami Water	BWZ-61	6	Nil
5.	Butt	BWZ-66	14	Nil
6.	Aqua Safe	BWZ-73	17	Nil
7.	Deosai	BWZ-80	8	Nil
8.	Valley	BWZ-81	9	Nil

PCRWR TESTING: SAFE BRANDS

Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
1.	Hi-Fresh	BWZ-01	Safe	Safe
2.	Super Natural	BWZ-03	Safe	Safe
3.	Active Pure Drinking Water	BWZ-04	Safe	Safe
4.	Khush Aab	BWZ-05	Safe	Safe
5.	Sufi	BWZ-06	Safe	Safe
6.	Crystal Pure Water	BWZ-07	Safe	Safe
7.	Blu Water	BWZ-08	Safe	Safe
8.	Gourmet	BWZ-09	Safe	Safe
9.	Himalaya Cool	BWZ-12	Safe	Safe
10.	Ultra Pak	BWZ-13	Safe	Safe
11.	Crystal Clear 555	BWZ-14	Safe	Safe
12.	Bless	BWZ-15	Safe	Safe
13.	Nestle	BWZ-16	Safe	Safe
14.	Kisan Better Life	BWZ-17	Safe	Safe
15.	NN Water	BWZ-18	Safe	Safe
16.	Springley	BWZ-19	Safe	Safe
17.	Vaskaro	BWZ-20	Safe	Safe
18.	Aqua Hygienic	BWZ-22	Safe	Safe
19.	Noble	BWZ-23	Safe	Safe
20.	Standard	BWZ-24	Safe	Safe
21.	Aquafina	BWZ-27	Safe	Safe

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
22.	Lite Aqua	BWZ-28	Safe	Safe
23.	Aqua 7	BWZ-30	Safe	Safe
24.	Oasis	BWZ-32	Safe	Safe
25.	Healthy Water	BWZ-33	Safe	Safe
26.	Crystal Lite	BWZ-34	Safe	Safe
27.	OSLO	BWZ-35	Safe	Safe
28.	Pearl	BWZ-36	Safe	Safe
29.	Jel	BWZ-39	Safe	Safe
30.	IQRA FINU	BWZ-40	Safe	Safe
31.	Orion	BWZ-41	Safe	Safe
32.	Drizzling	BWZ-42	Safe	Safe
33.	Vey	BWZ-43	Safe	Safe
34.	Miracle	BWZ-44	Safe	Safe
35.	Al-Massafi	BWZ-45	Safe	Safe
36.	Zindagi	BWZ-46	Safe	Safe
37.	Crystal Maya	BWZ-47	Safe	Safe
38.	Sprinkle	BWZ-48	Safe	Safe
39.	Spring Fresh	BWZ-49	Safe	Safe
40.	Aqua Vida	BWZ-50	Safe	Safe
41.	Sparkle	BWZ-51	Safe	Safe
42.	Pineo	BWZ-52	Safe	Safe
43.	ECO	BWZ-54	Safe	Safe
44.	Rise Water	BWZ-55	Safe	Safe
45.	Isberg	BWZ-56	Safe	Safe
46.	Al-SHALAL	BWZ-57	Safe	Safe
47.	VINA	BWZ-58	Safe	Safe
48.	Oxigzyer	BWZ-60	Safe	Safe
49.	Cannon	BWZ-62	Safe	Safe
50.	Aqua Blue	BWZ-63	Safe	Safe
51.	Effort	BWZ-64	Safe	Safe
52.	Doce	BWZ-65	Safe	Safe
53.	Aqua Pure	BWZ-67	Safe	Safe
54.	Naimat	BWZ-68	Safe	Safe
55.	OxyWater	BWZ-74	Safe	Safe
56.	Classic	BWZ-76	Safe	Safe
57.	Water Plus	BWZ-77	Safe	Safe
58.	Venora	BWZ-78	Safe	Safe
59.	Water Empire	BWZ-79	Safe	Safe
60.	Hydra	BWZ-82	Safe	Safe
61.	Hayat	BWZ-83	Safe	Safe
62.	Natural Aqwah	BWZ-84	Safe	Safe
63.	Aquatic Fresh	BWZ-85	Safe	Safe
64.	Moya Mineral Water	BWZ-86	Safe	Safe
65.	Aqua Splash	BWZ-97	Safe	Safe
66.	NEBRASKA	BWZ-88	Safe	Safe
67.	Aab-E Taskeen	BWZ-89	Safe	Safe
68.	Minter	BWZ-90	Safe	Safe

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
69.	Vital Happy Life	BWZ-91	Safe	Safe
70.	Freshly	BWZ-92	Safe	Safe
71.	Nectar	BWZ-94	Safe	Safe
72.	Verbena	BWZ-95	Safe	Safe

**PCRWR TESTING: UNSAFE BRANDS**

Sr. No	Brand Name	Code	Address/ Manufacturer	Quality (Safe/Unsafe)	
				Chemical	Microbiological
1.	Aqua	BWZ-02	Zafir Industries Plot #55 Shadi Pura Bund Road Lahore	Unsafe	Safe
2.	Premier	BWZ-10	Zafir Industries 19-km,Near Highnoon Laboratories Multan Road Lahore	Unsafe	Safe
3.	Safi	BWZ-11	Chashma mineral water near Grid Station D.I.Khan	Safe	Unsafe
4.	Kinley	BWZ-21	Coca Cola Beverages Pakistan Limited (CCBPL) S-E-11 Gulberg -III Lahore	Unsafe	Safe
5.	Pureza	BWZ-25	A Product Of Pureza International TEL# 021-36687013	Unsafe	Safe
6.	Kalash Pure Water	BWZ-26	Al-Rahman Enterprises Ali Hijwari Arcade, Kutchery Road ,Multan	Unsafe	Safe
7.	Panda	BWZ-29	Pace & Pace, Main Bosan Road Multan	Unsafe	Safe
8.	Fine Soul	BWZ-31	Sky Beverages:Bosan Road Shalimar Colony ,Multan	Unsafe	Safe
9.	Al-Habib	BWZ-37	E-10 Al-Azam Square F.B Block-1 Karachi	Unsafe	Safe
10.	Ideal Life	BWZ-38	Plot#B-9/B-1 Office# 37.5 p Chamber Site Karachi	Unsafe	Safe
11.	Aqua Save	BWZ-53	SFS Mineral Water Company Wazirabad Road JalianWala Ugoki Sialkot	Safe	Unsafe
12.	Life	BWZ-59	Helpline # 042-37490404	Unsafe	Unsafe
13.	Jami Water	BWZ-61	Jami Water Services ,Thokar Chowk College Road ,Township, Lahore	Safe	Unsafe
14.	Butt	BWZ-66	Butt Sweet&Bakers :16-Mcleao Road Lakshami Chowk Lahore	Unsafe	Unsafe
15.	Bliss Water	BWZ-69	4,Country Road Opposite Jinnah Hospital Lahore	Unsafe	Safe
16.	Cool	BWZ-70	M.T Mineral Water Co. B-7 Margharz Housing Society Lahore	Unsafe	Safe
17.	Rahat	BWZ-71	Aziz Bhatti Road Lahore Cantt	Unsafe	Safe
18.	Aqua National	BWZ-72	Milli Brothers 8-km,G.T Road Shahdra Lahore	Unsafe	Safe
19.	Aqua Safe	BWZ-73	Aqua Safe Pakistan (Pvt)Ltd 96-Mcleod Road Lahore Pakistan	Safe	Unsafe
20.	Total	BWZ-75	S.J.Foods: A Product of S.J Foods 9-km Multan Road Lahore	Unsafe	Safe
21.	Deosai	BWZ-80	Margalla Foods & Beverages Plot#32,Khayabane Johar Industrial Area Sector 1-9/2 Islamabad	Safe	Unsafe
22.	Valley	BWZ-81	Plot#277,St#1,1-9/3 Industrial Area Islamabad	Safe	Unsafe
23.	Aqua Life	BWZ-93	Sethi industries Lahore Pakistan	Unsafe	Safe

PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



**MARKET CONSISTENCY IN TWO NEIGHBORING QUARTERS**

Sr. No	Consistent Brands	New Brands	Unavailable Brands
1.	Hi-Fresh	Aqua	Athar
2.	Super Natural	Premier	Al-Saudia
3.	Active Pure Drinking Water	Himalaya Cool	Best Nation
4.	Khush Aab	Ultra Pak	Aqua Mine
5.	Sufi	Crystal Clear 555	Crystal Line
6.	Crystal Pure Water	Bless	Union
7.	Blu Water	Kisan Better Life	Mashmoom Aqua
8.	Gourmet	NN Water	Al-Sana
9.	Safi	Vaskaro	Elixir
10.	Nestle	Noble	Aqua RO7
11.	Springley	Lite Aqua	Active
12.	Kinley	Panda	NEBRASKA
13.	Aqua Hygienic	Aqua 7	Khyber Aqua
14.	Standard	Fine Soul	Lite Wave
15.	Pureza	Oasis	Al-Saudia water pack
16.	Kalash Pure Water	Healthy Water	A.R. Water
17.	Aquafina	Crystal Lite	BERG
18.	OSLO	IQRA FINU	IVA Pure
19.	Pearl	Drizzling	Buxton
20.	Al-Habib	Sprinkle	AFRA
21.	Ideal Life	Spring Fresh	Healthy Pure
22.	Jel	Aqua Vida	Khaleej
23.	Orion	Life	Best Water
24.	Vey	Cannon	Matrah
25.	Miracle	Aqua Blue	Grace
26.	Al-Massafi	Effort	Lock
27.	Crystal Maya	Butt	
28.	Sparkle	Aqua Pure	
29.	Pineo	Rahat	
30.	Aqua Save	Oxy Water	
31.	ECO	NEBRASKA	
32.	Rise Water	Aab-E Taskeen	
33.	Isberg	Minter	
34.	Al-SHALAL	Vital Happy Life	
35.	VINA	Freshly	
36.	Oxigzyzer	Aqua Life	
37.	Jami Water	Zindagi	
38.	Naimat		
39.	Bliss Water		
40.	Cool		
41.	Aqua National		
42.	Aqua Safe		
43.	TOTAL		
44.	Classic		
45.	Water Plus		
46.	Venora		
47.	Water Empire		
48.	Deosai		
49.	Valley		



PCRWR QUARTERLY REPORT-BOTTLED WATER  
QUALITY



50.	Hydra		
51.	Hayat		
52.	Natural Aqwah		
53.	Aquatic Fresh		
54.	Moya Mineral Water		
55.	Aqua Splash		
56.	Nectar		
57.	Verbena		
58.	Doce		

**DISEASE POTENTIAL FROM CONTAMINATED BOTTLED WATER**

Sr. No	Contaminant	Diseases Impacts
1.	<b>Bacteriological Contamination</b>	Cholera, Diarrhea, Dysentery, Hepatitis, Typhoid
2.	<b>Arsenic</b>	Cancer (lungs, bladder, skin, prostate, kidney, nose and liver), diabetes kidney diseases, hypertension, heart diseases, birth defects, black foot diseases.
3.	<b>Sodium</b>	Hypertension
4.	<b>Fluoride</b>	Dental and Skeletal Fluorosis

**CONCLUSIONS**

Sr. No	Item	Conclusion	
		No.	% age
1.	<b>Total No. of Brands Collected</b>	<b>95</b>	<b>-</b>
2.	<b>Overall safe brands</b>	<b>72</b>	<b>76</b>
3.	<b>No. of overall unsafe brands</b>	<b>23</b>	<b>24</b>
4.	<b>No. of Chemically safe brands</b>	<b>78</b>	<b>82</b>
5.	<b>No. of Chemically unsafe brands</b>	<b>17</b>	<b>18</b>
6.	<b>No. of Microbiologically safe brands</b>	<b>87</b>	<b>92</b>
7.	<b>No. of Microbiologically unsafe brands</b>	<b>8</b>	<b>8</b>
8.	<b>No. of Consistent brands in Market</b>	<b>58</b>	<b>61</b>
9.	<b>No. of brands disappeared from market</b>	<b>26</b>	<b>27</b>
10.	<b>No. of new brands</b>	<b>37</b>	<b>39</b>

Detailed water quality status of each bottled water brand is available at **Annexure-1**



Annexure-1

Chemical and Microbiological Quality of Bottled/Mineral Water Brands

Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO <sub>3</sub>	CO <sub>3</sub>	Cl	Na	F	PO <sub>4</sub>	Fe	K	NO <sub>3</sub>	SO <sub>4</sub>	As	* Microbiological Contaminants	
																				Total Coli forms 0/100 ml	E-Coli 0/100 ml
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	NGVS	250	50	0.7	NGVS	0.3	10	10	250	10	-	-
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	5	2	1	0.03	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Units	-	NTU		µS/cm	ppm	ppm	ppm	ppm	Ppm	ppm	ppm	Ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	MPN /100ml	MPN /100ml
Hi-Fresh	BWZ-01	BDL	7.61	260	143	16	17	110	30	BDL	35	15	0.26	BDL	BDL	0.6	1.5	49	BDL	Nil	Nil
Aqua	BWZ-02	BDL	7.78	722	397	40	22	190	300	BDL	36	84	0.49	BDL	BDL	4.3	BDL	53	39	Nil	Nil
Super Natural	BWZ-03	BDL	7.70	280	154	20	17	120	30	BDL	55	13	0.49	BDL	BDL	0.3	1	25	BDL	Nil	Nil
Active Pure Drinking Water	BWZ-04	BDL	7.52	351	193	48	10	160	45	BDL	60	10	0.29	0.04	BDL	BDL	1	34	BDL	Nil	Nil
Khush Aab	BWZ-05	BDL	7.60	330	182	40	12	150	40	BDL	59	9	0.22	BDL	BDL	BDL	BDL	29	BDL	Nil	Nil
Sufi	BWZ-06	BDL	7.49	378	208	48	12	150	40	BDL	68	9	0.20	BDL	BDL	BDL	BDL	21	BDL	Nil	Nil
Crystal Pure Water	BWZ-07	BDL	7.40	495	272	20	17	120	35	BDL	86	48	0.21	BDL	BDL	0.3	3	40	BDL	Nil	Nil
Blu Water	BWZ-08	BDL	7.42	282	155	28	15	130	30	BDL	50	10	0.15	BDL	BDL	0.3	BDL	39	1	Nil	Nil
Gourmet	BWZ-09	BDL	7.40	385	212	40	10	140	35	BDL	76	16	0.22	BDL	BDL	BDL	BDL	30	BDL	Nil	Nil
Premier	BWZ-10	BDL	7.49	543	299	40	12	150	190	BDL	30	58	0.35	BDL	BDL	1.7	BDL	46	28	Nil	Nil
Safi	BWZ-11	BDL	7.26	392	216	24	22	150	95	BDL	36	24	0.34	0.03	BDL	2.0	BDL	39	1	7	Nil
Himalaya Cool	BWZ-12	BDL	6.84	266	146	40	5	120	105	BDL	5	12	0.16	BDL	BDL	1.9	BDL	22	1	Nil	Nil
Ultra Pak	BWZ-13	BDL	6.98	299	164	20	17	120	65	BDL	32	20		BDL	BDL	0.5	BDL	38	0.5	Nil	Nil
Crystal Clear 555	BWZ-14	BDL	6.99	544	299	44	17	180	75	BDL	60	26	0.11	BDL	BDL	1.6	3	39	0.3	Nil	Nil
Bless	BWZ-15	BDL	7.09	345	190	32	17	150	40	BDL	50	10	0.03	BDL	BDL	BDL	BDL	39	BDL	Nil	Nil
Nestle	BWZ-16	BDL	7.21	362	199	36	15	150	40	BDL	65	9	0.48	BDL	BDL	0.2	BDL	29	3	Nil	Nil

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Kisan Better Life	BWZ-17	BDL	7.38	285	157	40	7	130	30	BDL	54	4	0.16	BDL	BDL	BDL	BDL	24	0.3	Nil	Nil
NN Water	BWZ-18	BDL	7.25	354	195	36	16	155	45	BDL	65	11	0.17	BDL	BDL	0.2	BDL	26	2	Nil	Nil
Springley	BWZ-19	BDL	7.28	515	283	60	24	250	235	BDL	6	20	0.18	BDL	BDL	1.1	3	16	1	Nil	Nil
Vaskaro	BWZ-20	BDL	7.22	390	215	36	15	150	35	BDL	56	7	0.16	BDL	BDL	0.3	BDL	45	1	Nil	Nil
Kinley	BWZ-21	BDL	7.01	631	347	40	18	175	30	BDL	154	58	0.21	BDL	BDL	2.5	BDL	36	0.5	Nil	Nil
Aqua Hygienic	BWZ-22	BDL	8.29	139	76	BDL	10	40	50	BDL	6	16	0.36	BDL	BDL	BDL	BDL	14	1	Nil	Nil
Noble	BWZ-23	BDL	7.11	472	260	56	12	190	150	BDL	11	15	0.13	BDL	BDL	4.1	5	54	1	Nil	Nil
Standard	BWZ-24	BDL	7.34	383	216	40	15	160	45	BDL	64	11	0.34	BDL	BDL	15.0	BDL	49	0.5	Nil	Nil
Pureza	BWZ-25	BDL	7.36	304	167	24	17	130	85	BDL	15	18	0.90	BDL	BDL	0.7	2	39	0.5	Nil	Nil
Kalash Pure Water	BWZ-26	BDL	7.30	746	410	80	24	300	180	BDL	39	39	0.21	BDL	BDL	4.4	BDL	20	21	Nil	Nil
Aquaflina	BWZ-27	BDL	7.71	203	112	BDL	19	80	10	BDL	28	13	BDL	BDL	BDL	1.0	BDL	47	0.3	Nil	Nil
Lite Aqua	BWZ-28	BDL	7.67	175	96	24	4	75	40	BDL	21	10	BDL	BDL	BDL	0.9	BDL	20	1	Nil	Nil
Panda	BWZ-29	BDL	7.66	250	143	18	13	10	75	BDL	9	20	0.06	BDL	BDL	1.8	BDL	50	18	Nil	Nil
Aqua 7	BWZ-30	BDL	7.53	457	251	16	27	150	50	BDL	94	39	BDL	BDL	BDL	1.2	BDL	33	1	Nil	Nil
Fine Soul	BWZ-31	BDL	7.44	148	81	12	9	65	55	BDL	9	5	0.04	BDL	BDL	0.7	BDL	6	18	Nil	Nil
Oasis	BWZ-32	BDL	7.37	383	211	40	12	150	50	BDL	75	22	0.06	0.03	BDL	BDL	BDL	21	1	Nil	Nil
Healthy Water	BWZ-33	BDL	7.31	374	206	32	15	140	50	BDL	68	21	0.16	BDL	BDL	4.9	BDL	41	BDL	Nil	Nil
Crystal Lite	BWZ-34	BDL	7.50	345	190	12	17	100	55	BDL	41	40	0.13	BDL	BDL	0.5	2.5	57	BDL	Nil	Nil
OSLO	BWZ-35	BDL	7.51	374	206	24	19	140	35	BDL	77	30	BDL	BDL	BDL	4.6	0.5	43	BDL	Nil	Nil
Pearl	BWZ-36	BDL	7.54	343	189	8	29	140	40	BDL	56	12	0.03	BDL	BDL	4.3	BDL	36	BDL	Nil	Nil
Al-Habib	BWZ-37	BDL	7.51	490	270	24	12	110	80	BDL	70	59	0.15	BDL	BDL	2.7	4	28	BDL	Nil	Nil
Ideal Life	BWZ-38	BDL	7.60	436	245	16	17	110	90	BDL	60	61	0.83	BDL	BDL	2.2	1	43	BDL	Nil	Nil
Jel	BWZ-39	BDL	7.53	301	166	16	12	90	35	BDL	69	26	0.09	BDL	BDL	1.6	2	6	BDL	Nil	Nil
IQRA FINU	BWZ-40	BDL	7.49	376	207	20	17	120	85	BDL	46	38	0.41	BDL	BDL	2.0	3	28	BDL	Nil	Nil
Orion	BWZ-41	BDL	7.54	367	202	8	17	90	55	BDL	62	48	0.07	BDL	BDL	2.6	3	34	BDL	Nil	Nil
Drizzling	BWZ-42	BDL	7.56	236	130	12	10	70	45	BDL	36	24	0.07	BDL	BDL	1.2	2	10	BDL	Nil	Nil
Vey	BWZ-43	BDL	7.33	271	149	20	10	90	25	BDL	59	14	0.04	BDL	BDL	8.5	BDL	16	BDL	Nil	Nil
Miracle	BWZ-44	BDL	7.39	348	191	32	7	110	70	BDL	50	30	0.15	BDL	BDL	6.2	2	16	0.4	Nil	Nil
Al-Massafi	BWZ-45	BDL	6.72	346	190	36	15	150	50	BDL	87	17	BDL	BDL	BDL	3.5	1	BDL	0.3	Nil	Nil

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Zindagi	BWZ-46	BDL	6.60	279	153	36	5	110	45	BDL	45	17	BDL	0.03	BDL	8.7	BDL	29	1	Nil	Nil
Crystal Maya	BWZ-47	BDL	7.61	308	169	40	5	120	25	BDL	13	12	0.08	BDL	BDL	1.8	1	90	0.5	Nil	Nil
Sprinkle	BWZ-48	BDL	6.88	439	241	32	12	130	75	BDL	66	48	0.23	BDL	BDL	2.0	3	34	0.3	Nil	Nil
Spring Fresh	BWZ-49	BDL	7.33	336	185	24	10	100	70	BDL	50	40	0.05	BDL	BDL	0.8	2	30	0.4	Nil	Nil
Aqua Vida	BWZ-50	BDL	7.38	282	155	36	5	110	45	BDL	53	13	BDL	BDL	BDL	BDL	BDL	6	0.3	Nil	Nil
Sparkle	BWZ-51	BDL	7.24	400	220	60	11	195	35	BDL	55	6	0.04	BDL	BDL	BDL	BDL	75	1	Nil	Nil
Pineo	BWZ-52	BDL	7.32	371	204	40	12	150	140	BDL	27	23	0.13	BDL	BDL	2.3	BDL	14	10	Nil	Nil
Aqua Save	BWZ-53	BDL	7.35	266	146	36	7	120	35	BDL	48	4	BDL	BDL	BDL	BDL	BDL	27	0.5	2	Nil
ECO	BWZ-54	BDL	7.40	334	184	40	12	150	155	BDL	21	14	0.18	BDL	BDL	1.6	BDL	BDL	2	Nil	Nil
Rise Water	BWZ-55	BDL	7.43	349	192	40	12	150	35	BDL	77	8	0.31	BDL	BDL	BDL	BDL	10	2	Nil	Nil
Isberg	BWZ-56	BDL	7.46	280	154	36	10	130	75	BDL	35	8	0.40	BDL	BDL	1.7	BDL	12	7	Nil	Nil
Al-SHALAL	BWZ-57	BDL	7.49	436	240	72	5	200	240	BDL	4	17	0.21	BDL	BDL	4.1	BDL	2	10	Nil	Nil
VINA	BWZ-58	BDL	7.52	347	191	36	18	165	45	BDL	76	10	BDL	BDL	BDL	BDL	BDL	18	0.5	Nil	Nil
Life	BWZ-59	BDL	7.50	273	150	36	10	130	140	BDL	2	13	0.26	BDL	BDL	1.8	BDL	13	29	4	Nil
Oxigzyzer	BWZ-60	BDL	7.72	24	13	BDL	BDL	BDL	10	BDL	3	5	BDL	BDL	BDL	BDL	BDL	BDL	0.6	Nil	Nil
Jami Water	BWZ-61	BDL	7.10	316	174	32	12	130	70	BDL	49	22	BDL	BDL	BDL	BDL	1	18	1	6	Nil
Cannon	BWZ-62	BDL	7.13	582	320	100	10	300	290	BDL	4	8	0.25	BDL	BDL	9.7	2	29	5	Nil	Nil
Aqua Blue	BWZ-63	BDL	7.47	280	154	32	10	120	80	BDL	38	16	0.07	BDL	BDL	1.7	BDL	10	3	Nil	Nil
Effort	BWZ-64	BDL	7.43	184	101	24	5	80	20	BDL	36	2	BDL	BDL	BDL	BDL	BDL	16	1	Nil	Nil
Doce	BWZ-65	BDL	7.17	361	199	40	12	150	50	BDL	62	15	BDL	BDL	BDL	0.7	BDL	23	1	Nil	Nil
Butt	BWZ-66	BDL	7.22	420	231	56	9	175	115	BDL	55	18	0.46	BDL	BDL	4.5	BDL	9	46	14	Nil
Aqua Pure	BWZ-67	BDL	7.30	350	193	32	12	130	55	BDL	48	21	0.08	BDL	BDL	2.4	BDL	42	1	Nil	Nil
Naimat	BWZ-68	BDL	7.24	297	163	40	7	130	145	BDL	7	20	0.26	BDL	BDL	2.1	BDL	9	9.5	Nil	Nil
Bliss Water	BWZ-69	BDL	7.41	422	232	40	12	150	125	BDL	50	21	0.16	BDL	BDL	2.2	BDL	9	18	Nil	Nil
Cool	BWZ-70	BDL	7.39	521	287	60	10	190	235	BDL	22	43	0.18	BDL	BDL	4.8	BDL	12	70	Nil	Nil
Rahat	BWZ-71	BDL	7.28	277	152	36	10	130	140	BDL	4	9	0.51	BDL	BDL	2.8	BDL	12	18	Nil	Nil
Aqua National	BWZ-72	BDL	7.09	259	142	40	6	125	125	BDL	1	7	0.18	BDL	BDL	1.9	BDL	9	65	Nil	Nil
Aqua Safe	BWZ-73	BDL	7.43	499	274	20	24	150	105	BDL	58	47	0.09	BDL	BDL	2.3	BDL	52	5	17	Nil
OxyWater	BWZ-74	BDL	7.40	317	174	24	22	150	155	BDL	7	16	0.25	BDL	BDL	1.8	BDL	6	5	Nil	Nil
TOTAL	BWZ-75	BDL	7.58	442	243	20	12	100	140	BDL	142	63	0.15	BDL	BDL	2.5	BDL	22	15	Nil	Nil
Classic	BWZ-76	BDL	7.46	379	208	20	19	130	145	BDL	26	40	0.04	BDL	BDL	1.8	BDL	18	10	Nil	Nil

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Water Plus	BWZ-77	BDL	7.29	373	205	40	12	150	125	BDL	23	13	0.20	BDL	BDL	0.6	1	7	2	Nil	Nil
Venora	BWZ-78	BDL	7.35	394	217	40	12	150	105	BDL	41	17	0.04	BDL	BDL	0.5	2	20	0.5	Nil	Nil
Water Empire	BWZ-79	BDL	7.15	414	228	40	15	160	70	BDL	74	14	0.04	BDL	BDL	0.3	0.6	12	BDL	Nil	Nil
Deosai	BWZ-80	BDL	7.07	326	179	24	19	140	40	BDL	62	13	0.39	BDL	BDL	BDL	BDL	24	BDL	8	Nil
Valley	BWZ-81	BDL	7.30	372	205	44	15	170	170	BDL	9	12	0.17	BDL	BDL	1.0	2	8	0.5	9	Nil
Hydra	BWZ-82	BDL	7.50	436	240	40	17	170	210	BDL	12	28	0.16	BDL	BDL	0.8	1	11	0.6	Nil	Nil
Hayat	BWZ-83	BDL	7.32	365	201	16	22	130	155	BDL	11	20	0.17	BDL	BDL	0.7	3	8	0.4	Nil	Nil
Natural Aqwah	BWZ-84	BDL	7.03	380	209	44	17	180	170	BDL	12	14	0.29	BDL	BDL	1.3	4	22	1	Nil	Nil
Aquatic Fresh	BWZ-85	BDL	7.20	517	284	60	27	260	180	BDL	41	17	0.34	BDL	BDL	1.8	6	24	0.3	Nil	Nil
Moya Mineral Water	BWZ-86	BDL	7.24	231	127	40	4	115	65	BDL	40	5	0.10	BDL	BDL	0.4	1.2	8	0.4	Nil	Nil
Aqua Splash	BWZ-87	BDL	7.16	344	189	40	15	160	45	BDL	77	14	0.05	BDL	BDL	0.3	2.3	25	0.5	Nil	Nil
NEBRASKA	BWZ-88	BDL	7.21	389	214	40	15	160	40	BDL	80	11	0.06	BDL	BDL	BDL	BDL	30	BDL	Nil	Nil
Aab-E Taskeen	BWZ-89	BDL	7.25	219	120	20	12	100	35	BDL	50	9	0.07	BDL	BDL	BDL	BDL	5	1	Nil	Nil
Minter	BWZ-90	BDL	7.14	326	179	36	15	150	50	BDL	69	14	BDL	BDL	BDL	BDL	BDL	30	2	Nil	Nil
Vital Happy Life	BWZ-91	BDL	7.12	291	160	36	15	150	35	BDL	83	4	BDL	BDL	BDL	2.6	0.8	9	2	Nil	Nil
Freshly	BWZ-92	BDL	7.10	322	177	40	12	150	55	BDL	65	12	BDL	BDL	BDL	0.3	BDL	13	1	Nil	Nil
Aqua Life	BWZ-93	BDL	7.17	942	565	60	24	250	105	BDL	78	104	BDL	BDL	BDL	3.1	BDL	210	3	Nil	Nil
Nectar	BWZ-94	BDL	7.02	375	206	40	12	150	145	BDL	13	17	0.13	BDL	BDL	0.8	6	BDL	BDL	Nil	Nil
Verbena	BWZ-95	BDL	7.05	356	196	44	10	150	45	BDL	72	9	0.34	BDL	BDL	0.2	BDL	88	BDL	Nil	Nil

NGVS =No Guideline Value Set

BDL = Below Detection Limits

\* Microbiological results have also been verified by IDEXX (Quanti-Tray/2000 USA) and Membrane Filtration (CFU/100ml, 9222-B&D APHA) Methods.