



QUARTERLY REPORT BOTTLED WATER QUALITY

(April-June, 2019)



PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES
Ministry of Science & Technology
Khyban-e-Johar, H-8/1, Islamabad.
www.pcrwr.gov.pk



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 April-June, 2019 following is the brief overview of the findings.

Quarterly Monitoring of Bottled/Mineral Water (April-June, 2019)

Item	No.	% age
Total No. of Brands Collected	77	-
Overall Safe Brands	73	95
Overall Unsafe Brands	04	5
Chemically Safe Brands	73	95
Chemically Unsafe Brands	04	5
Microbiologically Safe Brands	77	100
Microbiologically Unsafe Brands	0	0

Name of Targeted Cities	Islamabad, Rawalpindi, Tando Jam, Lahore, Multan, Bahawalpur, Faisalabad, Peshawar, Sialkot	
Unsafe Brands (Chemically)	Super Natural	WELL-O (Pvt) Ltd. P-958 St 12 M.Abad Satiana Road, Faisalabad. info@well-o.com
	Classic Plus	35-N, Industrial Area Gulberg-II, Lahore.
	KLINZ	Plot#10-A, Punjab Small Industrial Estate Kacha Jail Road Kot Lakhpat Lahore.
	TAJ Pure Drinking Water	Main Bazar Madina Town Taj Bagh Scheme, Lahore,



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 and 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	77	
No. of Cities Targeted	09 (Islamabad, Rawalpindi, Tando Jam, Lahore, Multan, Bahawalpur, Faisalabad, Peshawar, Sialkot)	
Composition of Sampling Team as per MoU Signed between PCRWR & PSQCA	PCRWR Research Officer (1) PCRWR Laboratory Assistants (2) PSQCA Senior staff member/field officer (1)	
Sampling Procedure	Samples of 77 commercially available brands of mineral/bottled water were collected jointly by PCRWR and PSQCA from local market of 9 cities of Pakistan. These samples were collected by the senior staff members of National Water Quality Laboratory (NWQL) of PCRWR Head Office and Regional/district Water Quality Laboratories of PCRWR during April to June, 2019. A set of four bottles of each brand was collected and sealed on site. Identification codes were allotted to all the brands according to PCRWR Bottled Water Brands Identification 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 BOTTLED WATER CLASSIFICATION SYSTEM

Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Nestle	BWV-01	Tando Jam	13/06/2019	12/2021	0.5 Liter	Syed Brothers General Store Latifabad Unit No.7 Hyderabad	Bottled By Nestle Pakistan Ltd. 308-Upper Mall, Lahore
Vey	BWV-02	Tando Jam	13/06/2019		1.5 Liter	Pak Pharmacy General Store Qasimabad Hyderabad	Fluid Technology Int'l(Pvt)Ltd.424,Bhayani Center Block-N,North Nazimabad Karachi
OSLO	BWV-03	Tando Jam	13/06/2019		0.6 Liter	Syed Brothers General Store Latifabad Unit No.7 Hyderabad	Oslo International: 14-Ramzan Chamber Dr.Billmorla Street off 11,Chundighr, Karachi
AQUAFINA	BWV-04	Tando Jam	13/06/2019	032020	1.5 Liter	Syed Brothers General Store Latifabad Unit No.7 Hyderabad	Purified & Filled Riaz Bottles (Pvt)Ltd.32- N, Gulberg II Lahore Under appointment from PepsiCo
Dasani	BWV-05	Tando Jam	13/06/2019	09/2019	0.5 Liter	Best One Super Mart,Qasimabad Hyderabad	Bottled Under Authority of The Coca Cola Company By Coca-Cola Beverages Pakistan Ltd.(CCBPL)26,FCC,Syed Maratab Ali Road, Gulberg IV,Lahore, Pakistan
Buxton	BWV-06	Tando Jam	13/06/2019		0.6 Liter	Al-Atta General Store Naseem Nagar,Qasimabad	Buxton Water: Tahira abad Fareed Plaza Hyderabad. 0333-2026491
Pearl	BWV-07	Tando Jam	13/06/2019	08/2019	0.6 Liter	Wahadat Karyana and General Store,Wahdat Colony, Qasimabad Hyderabad	Address: 144/6.8 km, Near Toll Plaza Super Highway Jamshoro. www.prarlmineralwater.com. Pk
Calci Dew	BWV-08	Islamabad	17/06/2019	06/2020	0.5 Liter	Collected from manufacturing point	Plot 3 Main Sohan Stop Expressway Islamabad, Pakistan
Maple Plus	BWV-09	Islamabad	17/06/2019	12/2019	1.5 Liter	Collected from manufacturing point	Maple Plus Purification Plant Plot No.2, Federal Area, Sohan Islamabad.
Nectar	BWV-10	Islamabad	17/06/2019	12/2019	0.5 Liter	Collected from manufacturing point	Islamabad Expressway Near Paradise Complex Kuri road Islamabad.
Softin	BWV-11	Islamabad	17/06/2019	01/2020	0.6 Liter	Collected from manufacturing point	Manufactured by: SOFTIN PURE WATER Pindorian Islamabad
Sea Pack	BWV-12	Islamabad	17/06/2019	12/2019	1.5 Liter	Collected from manufacturing point	Kiyani Plaza Ashraf Town Pindorian, Islamabad Email: info.seapack@gmail.com
Fresh Life	BWV-13	Islamabad	18/06/2019	12/2019	0.5 Liter	Collected from manufacturing point	Approved By Frseh Life Pindorian Road, Main Khana Dak, Islamabad
Hydr8	BWV-14	Islamabad	18/06/2019	01/2020	1.5 Liter	Collected from manufacturing point	Hydr8 Commercial # 553, Main Road, VIP Ghouri Town, Islamabad
Hydra	BWV-15	Islamabad	18/06/2019	12/2019	1.5 Liter	Collected from manufacturing point	Bottled by: PAKISTAN PVC LIMITED (FOOD DIVISION) 31-A Sector I-9 Islamabad Pakistan



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Sunlay Pure	BWV-16	Islamabad	18/06/2019	12/2019	1.5 Liter	Collected from manufacturing point	Bottled by: PAKISTAN PVC LIMITED (FOOD DIVISION) 31-A Sector I-9 Islamabad Pakistan
Aquantis	BWV-17	Islamabad	18/06/2019	03/2020	1.5 Liter	Collected from manufacturing point	Quality Providers: Bismillah Plaza Ashraf Town Pindorian Khanapul Islamabad
Nestol	BWV-18	Islamabad	18/06/2019	12/2019	0.5 Liter	Collected from manufacturing point	Khana Dak, Park Area Islamabad. 0300-5303135 0315-2340090
Fresh Sprinkle	BWV-19	Islamabad	18/06/2019	12/2019	0.5 Liter	Collected from manufacturing point	A Bottled by Unify Enterprises
Venora	BWV-20	Islamabad	18/06/2019	03/2020	1.5 Liter	Collected from manufacturing point	Plot No.238, St#8, I-9/3 Islamabad 051-4432848
Water Plus	BWV-21	Islamabad	18/06/2019	03/2020	0.5 Liter	Collected from manufacturing point	Plot No. 235, St 6, I-9/2, Industrial Area, Islamabad
Elim	BWV-22	Islamabad	18/06/2019	12/2019	1.5 Liter	Collected from manufacturing point	PLOT NO.195, STREET NO.2, SECTOR I-9/3, ISLAMABAD Islamabad
MEHR	BWV-23	Rawalpindi	18/06/2019	12/2019	0.5 Liter	Collected from manufacturing point	Bottled by: Pir Mehr Ali Shah Arid Agriculture University Murree Road Rawalpindi
Aqua Splash	BWV-24	Peshawar	19/06/2019	04/2020	0.5 Liter	Collected from manufacturing point	EURO International: Processed & Filled at:192-A, Industrial Estate Hayatabad Peshawar
NEBRASKA	BWV-25	Peshawar	19/06/2019	09/2020	0.6 Liter	Collected from manufacturing point	Bottled at Dew Point Healthcare Water Purification and Processing Facility:12- C Industrial Estate, Hayatabad, Peshawar
Top Up	BWV-26	Peshawar	20/06/2019	06/2020	0.5 Liter	Collected from manufacturing point	Top Up Industry:Plot#C3, Industria 1 Estate Hayatabad Peshawar
Natural AQWAH Water	BWV-27	Peshawar	19/06/2019	06/2020	0.6 Liter	Collected from manufacturing point	RG Enterprises: Plot#141, 7-Industrial Estate, Hayatabad, Peshawar. Web:www.aqwah.com
DUA	BWV-28	Peshawar	20/06/2019	06/2020	0.6 Liter	Collected from manufacturing point	Dua Beverages: Premium Drinking Water www.duapakistan.com 03335731914
Aquatic Fresh	BWV-29	Peshawar	20/06/2019	06/2020	0.6 Liter	Collected from manufacturing point	Royal Food Industries: Plot#1-C, Industrial Estate Hayatabad, Peshawar
Marina	BWV-30	Peshawar	20/06/2019	06/2020	0.6 Liter	Collected from manufacturing point	Malik Foods Industries: Alwasi City, Ring Road, Pishthakhara Peshawar KPK
Moya Mineral Water	BWV-31	Peshawar	20/06/2019	06/2020	0.6 Liter	Collected from manufacturing point	Processed by:Al-Saudia Enterprises: Plot 580/B main Gulberg Peshawar Cantt.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Aqua Pura Smart	BWV-32	Peshawar	20/06/2019	05/2020	0.6 Liter	Collected from manufacturing point	A project of Khawaja & Sons Enterprises:
Wah Water	BWV-33	Peshawar	19/06/2019	06/2020	0.6 Liter	Collected from manufacturing point	RG Enterprises: Plot#141, 7-Industrial Estate, Hayatabad, Peshawar. Web:www.aqwah.com
AQUWA Plus	BWV-34	Faisalabad	05/07/2019	-	0.6 Liter	Shabbir Pan Shop Makwana Bypass Near PSO Pump Faisalabad	Manufactured by:A.R Traders: Toba Road Morr Near Railway Cabin Gojra Pakistan
Super Natural	BWV-35	Faisalabad	05/07/2019	06/2020	0.5 Liter	Nawab Pan Shop Makwana Bypass Near PSO Pump Faisalabad	WELL-O(Pvt)Ltd P-958 St 12 M.Abad Satiana Road, Faisalabad info@well-o.com
Nicely Puri Zindagi	BWV-36	Faisalabad	05/07/2019	06/2020	0.5 Liter	Yaseen Golden Pan Shop Faisalabad	Borray Wala Road 6 CK Stop Faisalabad Npz.pvt@gmail.com
Nation Pure Water	BWV-37	Faisalabad	05/07/2019	03/2020	0.6 Liter	Hamza Pan Shop Larri Adda Faisalabad	Bottled by Rameez Enterprises:9-km G.T Road,Rachna Town Faisalabad
Eden Pure Water	BWV-38	Multan	28/06/2019	12/2019	1.5 Liter	Bilal Medical Store Near Chowk RasheedAbad Khanewal Road Multan	Sadaf Canal, Bahawalpur Road, Multan-Pakistan. www.edenpurewater.com
EVO Aqua	BWV-39	Multan	28/06/2019	02/2020	1.5 Liter	Jabbar Karyana Store Al-Mustafa Road Multan	Produced by:EVO Beverage & Food:Khanewal Road, Multan www.evofoods.net
Dasani	BWV-40	Multan	28/06/2019	12/2019	1.5 Liter	Jabbar Karyana Store Al-Mustafa Road Multan	Bottled Under Authority of The Coca Cola Company By Coca-Cola Beverages Pakistan Ltd.(CCBPL)26,FCC,Syed Maratab Ali Road, Gulberg IV,Lahore, Pakistan
Pani by PFB	BWV-41	Multan	28/06/2019	12/2019	1.5 Liter	Bilal Medical Store Near Chowk RasheedAbad Khanewal Road Multan	Premium Foods and Beverages:1754-A/22 L.M.Q Road Multan
Jami Water	BWV-42	Lahore	05/07/2019	03/2020	1.5 Liter	Jami Water town Ship Branch Khokhar Chowk Lahore	A Product of Jami Water Services:356-E PIA Housing Society PIA Road, Lahore www.jamiwater.com
Cristalene	BWV-43	Lahore	08/07/2019	09/2019	1.5 Liter	A-1,Block Commercial Market Valencia Lahore	A Product of Cristalene Pak Brothers: 30/A-1 Al-Feroz Plaza Commercial Area Valencia Society Lahore. www.cristalenepak.com
DEJA BLUE	BWV-44	Lahore	09/07/2019	06/2020	1.5 Liter	2 Punj Mahal Road, Off Mozang Road, Lahore	Tanzim Hussain (Pvt)Ltd.12-A,Mason Road Lahore dejabluepakistan@mail.com



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Gourmet	BWV-45	Lahore	08/07/2019	06/2020	0.6 Liter	PIA Road Near Round about Wapda Town, Lahore	Gourmet Foods: Gate # 1, Plot 1-5, Sunder Industrial Estate, Raiwind Sunder Road, Lahore, Pakistan
O2 Water	BWV-46	Lahore	08/07/2019	07/2020	0.6 Liter	H-Block Commercial Market Valencia Town, Lahore	A Product of E-Engineering Enterprises:Commerical Area Valencia Town, Lahore
Heaven H2O	BWV-47	Lahore	08/07/2019	06/2020	0.6 Liter	35-C,NFC Commercial Market Lahore	Heaven.h2o.dw@gmail.com
Aqua Safe	BWV-48	Lahore	08/07/2019	03/2020	0.6 Liter	Butt Sweets PIA Road Near Round About Wapda Town Lahore	Bottled by Aqua Safe Pakistan:96-McLeod Road, Lahore aquasafewater@gmail.com
Classic Plus	BWV-49	Lahore	09/07/2019	01/2020	1.5 Liter	35-N,industrial Area Gulberg III,Lahore	35-N, Industrial Area Gulberg-II, Lahore.
Aqua One	BWV-50	Lahore	08/07/2019	05/2020	1.5 Liter	Collected from manufacturing point	Aqua One Filtration(Pvt)Ltd.30-A,Naz Town Main Boulevard (Near Valencia Town)Lahore. www.aquaonefiltration.com
Erir	BWV-51	Lahore	05/07/2019	03/2020	1.5 Liter	Collected from manufacturing point	A Project of Sagacious (Pvt) Ltd.99-CII, PGECHS Lahore. www.erie.pk
DOCE	BWV-52	Lahore	08/07/2019	06/2020	0.6 Liter	Doce Bakery 40 B-1 PIA Road, Lahore	48-M, Quaid-e-Azam Industrial State, Kot Lakhpat, Lahore www.doce.pk
Sufi	BWV-53	Lahore	09/07/2019	06/2021	0.5 Liter	131-C,C-BlockModel Town, Lahore	Processed and Bottled by: Hadayat Food Stuffs Industries (Pvt) Ltd.1-B, Garden Block, Garden Town Lahore.
KLINZ	BWV-54	Lahore	08/07/2019	01/2020	1.5 Liter	Collected from manufacturing point	Plot#10-A, Punjab Small Industrial Estate Kacha Jail Road Kot Lakhpat Lahore.
PUREFLO	BWV-55	Lahore	05/07/2019	05/2020	1.5 Liter	193-Commerical Airline Society Near HBL Lahore	A Product of:193,Ali Center, Airline Society,Khayaban-e-Jinnah, Lahore www.pureflo.pk
Aquafina	BWV-56	Lahore	05/07/2019	06/2020	0.5 Liter	194,Commerical Area Airline Society Near HBL Lahore	Purified & Filled Riaz Bottles (Pvt)Ltd.32- N ,Gulberg II Lahore Under appointment from PepsiCo
Sundar Farms WASSER	BWV-57	Lahore	09/07/2019	05/2020	0.6 Liter	Collected from manufacturing point	Sunder Rangeel Pure Road Sunder Multan Road Lahore www.sunderfarms.com
Nestle	BWV-58	Lahore	05/07/2019	11/2020	0.5 Liter	Dukes & Dures Super Store 195 Commerical Airline Society Lahore	Bottled By Nestle Pakistan Ltd. 308-Upper Mall, Lahore



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Al-Noor	BWV-59	Sialkot	08/07/2019	12/2019	0.5 Liter	Collected from manufacturing point	Ammad Foods:7km Bhaghowal Road Sialkot 0331-6185706
Rescue	BWV-60	Sialkot	09/07/2019	-	0.6 Liter	Imam Pak Pan Shop Shahab Pura Chowk Sialkot	Bottled by:Maab Enterprises:Roras Road,Opp.Old Saga Factory,Shahab Pura Sialkot.
ICE Well	BWV-61	Sialkot		12/2019	0.6 Liter	Imam Pak Pan Shop Shahab Pura Chowk Sialkot	Bottled by: Quaint Beverages Industries Near G.T Road Mor Sambrial Sialkot
ECO	BWV-62	Sialkot	09/07/2019	01/2020	0.6 Liter	Collected from manufacturing point	J&J Foods & Beverages: Ittefaq Manzil Near Jinnah Islamia College Road Sialkot www.jjfoodw-bev.com
Aqua Natural	BWV-63	Sialkot	09/07/2019	12/2019	0.5 Liter	Tarkey Pan Shop Shahab Pura Chowk Sialkot	Purified & Packed by Aqua Natural Gujranwala Road Daska. PS:4639-2004
RISE Water	BWV-64	Sialkot	09/07/2019	01/2020	0.6 Liter	Abdullah Pan Shop Larri Adda Sialkot	Pure Foods Sialkot 3-km Kingra Road Sialkot 052-4602580
Isberg	BWV-65	Sialkot	09/07/2019	12/2019	0.6 Liter	Collected from manufacturing point	Premier Water Refining Company Sialkot 0332-4009991 isberg52@hotmail.com
Bake Master	BWV-66	Sialkot	09/07/2019	12/2019	0.6 Liter	Rizwan Sb Shahab Pura Road Sialkot	Bake Master Food & BeveragesMurad Pur,Sialkot 0323-4656666 PS:4639/04
OASIS Plus	BWV-67	Sialkot	09/07/2019	12/2019	0.6 Liter	Akram Sb Shahab Pura Chowk Sialkot	www.oasisplus.com.pk email:info@oasisplus.com.pk
7 Smart	BWV-68	Bahawalpur	28/06/2019	06/2020	0.5 Liter	Shar Sweets & Bakers Railway Road Bahawalpur	Madina International Co. Near Eid Gah Road, Khanqah Sharif (BWP) Pakistan. 0300-7053898
Aqua Platinum Crystal Water	BWV-69	Bahawalpur	28/06/2019	05/2020	0.5 Liter	Life Medical Store Opp.BVH Bahawalpur.	Manufactured by: Aqua Platinum Crystal Water Street No.16 Muslim Town BWP.
TAJ Pure Drinking Water	BWV-70	Bahawalpur	28/06/2019	06/2020	0.6 Liter	Al-Khair Pharmacy Opp.BVH Bahawalpur	Main Bazar Madina Town Taj Bagh Scheme, Lahore,
J. Smart Water	BWV-71	Bahawalpur	28/06/2019	01/2020	0.6 Liter	Abdullah General Store Opp BVH Bahawalpur.	T.M. No:433366
Pine'o	BWV-72	Bahawalpur	28/06/2019	05/2020	0.6 Liter	New Awan Medicos M/TC Road Bahawalpur.	Under Licence: Gysing Pak DDR-1, PSIE Bahawalpur. gysing@live.com
Piyaas Plus	BWV-73	Bahawalpur	28/06/2019	06/2020	0.6 Liter	Arshad Industries Moza Zakria Bahawalpur	Mouza Zakira Samma Satta. Head Off: 59-A, Ghalla Mandi, Bahawalpur, Pakistan
Panee	BWV-74	Bahawalpur	28/06/2019	06/2020	1.5 Liter	Al-Khair Pharmacy Opp.BVH Bahawalpur	SUALEH SONS FOODS Room#2/32, Al Abid Chamber Shahrah-e-Liaquat Karachi Factory:1/2km, Bahawalpur Road, Ahmedpur East.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Aqua Shifa	BWV-75	Bahawalpur	28/06/2019	04/2020	1.5 Liter	Paragon Ideal Homes Near bypasses Bahawalpur.	Paragon Ideal Homes Near bypasses Bahawalpur.
RAKA POSHI	BWV-76	Islamabad	27/06/2019	12/2019	1.5 Liter	Collected from manufacturing point	Purified & packed by: Siddique Sons: B-106, Satellite Town Rawalpindi. rakaposhiwater@gmail.com 0302-8266078
Aqualine	BWV-77	Islamabad	27/06/2019	10/2019	1.5 Liter	Collected from manufacturing point	Bottled by: Kallar Road, Rawat Near to UC Office Opposite Rawat, Islamabad.

WATER QUALITY PARAMETERS AND METHODS USED FOR ANALYSIS

Sr. #	PARAMETERS	ANALYTICAL METHOD
1.	Alkalinity (mg/l as CaCO ₃)	2320, Standard method (2012) APHA
2.	Arsenic (ppb)	AAS Vario 6, Analytik Jena AG
3.	Bicarbonate	2320, Standard method (2012) APHA
4.	Calcium (mg/l)	3500-Ca-D, Standard Method (2012) APHA
5.	Carbonate (mg/l)	2320, Standard method (2012)
6.	Chloride (mg/l)	Titration (Silver Nitrate), Standard Method (2012) 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 (2012) APHA
10.	Magnesium (mg/l)	2340-C, Standard Method (2012) 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)	Sulfa Ver4 (Hach-8051) by Spectrophotometer
17.	Phosphate (mg/l)	8190 and 8048 (Hach)



Sr. #	PARAMETERS	ANALYTICAL METHOD
18.	Taste	Sensory Test
19.	TDS (mg/l)	2540C, Standard method (2012) 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 (2012) APHA
24.	E. coli (MPN/100ml)	9221-B,C&D, Standard Methods (2012) 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.	Color	(TCU)	15	NGVS	5
7.	Conductivity	(μ S/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
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



Sr. #	Parameter	Units	Permissible Limits		
			WHO	IBWA	PSQCA
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

Sodium: Safe Limit : 50 parts per million (ppm)					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Super Natural	BWV-35	Faisalabad	ppm	76
2.	Taj Pure Drinking Water	BWV-70	Lahore	ppm	60

pH : Safe Limit : 6.5-8.5					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	Classic Plus	BWV-49	Lahore	-	6.16
2.	KLINZ	BWV-54	Lahore	-	6.09

PCRWR TESTING: SAFE BRANDS

Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
1.	Nestle	BWV-01	Safe	Safe
2.	Vey	BWV-02	Safe	Safe
3.	OSLO	BWV-03	Safe	Safe
4.	AQUAFINA	BWV-04	Safe	Safe
5.	Dasani	BWV-05	Safe	Safe
6.	Buxton	BWV-06	Safe	Safe
7.	Pearl	BWV-07	Safe	Safe
8.	Calci Dew	BWV-08	Safe	Safe
9.	Maple Plus	BWV-09	Safe	Safe
10.	Nectar	BWV-10	Safe	Safe
11.	Softin	BWV-11	Safe	Safe
12.	Sea Pack	BWV-12	Safe	Safe
13.	Fresh Life	BWV-13	Safe	Safe
14.	Hydr8	BWV-14	Safe	Safe
15.	Hydra	BWV-15	Safe	Safe
16.	Sunlay Pure	BWV-16	Safe	Safe
17.	Aquantis	BWV-17	Safe	Safe
18.	Nestol	BWV-18	Safe	Safe
19.	Fresh Sprinkle	BWV-19	Safe	Safe
20.	Venora	BWV-20	Safe	Safe
21.	Water Plus	BWV-21	Safe	Safe
22.	Elim	BWV-22	Safe	Safe
23.	MEHR	BWV-23	Safe	Safe
24.	Aqua Splash	BWV-24	Safe	Safe
25.	NEBRASKA	BWV-25	Safe	Safe



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
26.	Top Up	BWV-26	Safe	Safe
27.	Natural AQWAH Water	BWV-27	Safe	Safe
28.	DUA	BWV-28	Safe	Safe
29.	Aquatic Fresh	BWV-29	Safe	Safe
30.	Marina	BWV-30	Safe	Safe
31.	Moya Mineral Water	BWV-31	Safe	Safe
32.	Aqua Pura Smart	BWV-32	Safe	Safe
33.	Wah Water	BWV-33	Safe	Safe
34.	AQUWA Plus	BWV-34	Safe	Safe
35.	Nicely Puri Zindagi	BWV-36	Safe	Safe
36.	Nation Pure Water	BWV-37	Safe	Safe
37.	Eden Pure Water	BWV-38	Safe	Safe
38.	EVO Aqua	BWV-39	Safe	Safe
39.	Dasani	BWV-40	Safe	Safe
40.	Pani by PFB	BWV-41	Safe	Safe
41.	Jami Water	BWV-42	Safe	Safe
42.	Cristalene	BWV-43	Safe	Safe
43.	DEJA BLUE	BWV-44	Safe	Safe
44.	Gourmet	BWV-45	Safe	Safe
45.	O2 Water	BWV-46	Safe	Safe
46.	Heaven H2O	BWV-47	Safe	Safe
47.	Aqua Safe	BWV-48	Safe	Safe
48.	Aqua One	BWV-50	Safe	Safe
49.	Erir	BWV-51	Safe	Safe
50.	DOCE	BWV-52	Safe	Safe
51.	Sufi	BWV-53	Safe	Safe
52.	PUREFLO	BWV-55	Safe	Safe
53.	Aquafina	BWV-56	Safe	Safe
54.	Sundar Farms WASSER	BWV-57	Safe	Safe
55.	Nestle	BWV-58	Safe	Safe
56.	Al-Noor	BWV-59	Safe	Safe
57.	Rescue	BWV-60	Safe	Safe
58.	ICE Well	BWV-61	Safe	Safe
59.	Eco	BWV-62	Safe	Safe
60.	Aqua Natural	BWV-63	Safe	Safe
61.	RISE Water	BWV-64	Safe	Safe
62.	Isberg	BWV-65	Safe	Safe
63.	Bake Master	BWV-66	Safe	Safe
64.	OASIS	BWV-67	Safe	Safe
65.	7 Smart	BWV-68	Safe	Safe
66.	Aqua Platinum Crystal Water	BWV-69	Safe	Safe
67.	J.Smart Water	BWV-71	Safe	Safe
68.	Pine'o	BWV-72	Safe	Safe
69.	Piyaas Plus	BWV-73	Safe	Safe
70.	Panee	BWV-74	Safe	Safe
71.	Aqua Shifa	BWV-75	Safe	Safe
72.	RAKA POSHI	BWV-76	Safe	Safe
73.	Aqualine	BWV-77	Safe	Safe



PCRWR TESTING: UNSAFE BRANDS

Sr. No	Brand Name	Code	Address/Manufacturer	Quality (Safe/Unsafe)	
				Chemical	Microbiological
1.	Super Natural	BWV-35	WELL-O (Pvt)Ltd P-958 St 12 M. Abad Satiana Road, Faisalabad info@well-o.com	Unsafe	Safe
2.	Classic Plus	BWV-49	35-N, Industrial Area Gulberg-II, Lahore.	Unsafe	Safe
3.	KLINZ	BWV-54	Plot#10-A, Punjab Small Industrial Estate Kacha Jail Road Kot Lakhpat Lahore.	Unsafe	Safe
4.	TAJ Pure Drinking Water	BWV-70	Main Bazar Madina Town Taj Bagh Scheme, Lahore,	Unsafe	Safe

MARKET CONSISTENCY IN TWO NEIGHBORING QUARTERS

Sr. No	Consistent Brands	New Brands	Unavailable Brands
1.	Nestle	Vey	Chen Water
2.	Aquafina	OSLO	Cool & Fresh
3.	Dasani	Buxton	Aqua Hygienic
4.	Pearl	Nectar	Al-Hada
5.	Calci Dew	Fresh Life	Water Plus
6.	Maple Plus	Hydra	JEL
7.	Softin	Sunlay Pure	KARAKORUM Flow
8.	Sea Pack	Nestol	NEO Max
9.	Hydr8	Fresh Sprinkle	Orion
10.	Aquantis	Water Plus	Crystal Maya
11.	Venora	MEHR	Aqua Pure
12.	Elim	Aqua Splash	D-Nova
13.	Jami Water	NEBRASKA	Culligan
14.	Gourmet	Top Up	Orish
15.	Aqua Safe	Natural AQWAH Water	Hoor Water
16.	Piyaas Plus	DUA	ALPHA
17.		Aquatic Fresh	Mag life
18.		Marina	Douro
19.		Moya Mineral Water	Aqua Ayolam
20.		Aqua Pura Smart	Nafees
21.		Wah Water	AFRA
22.		AQUWA Plus	Vitella
23.		Super Natural	Thanda Pani
24.		Nicely Puri Zindagi	PARADISE
25.		Nation Pure Water	Refresh(Hi Mark)
26.		Eden Pure Water	Livon
27.		EVO Aqua	Hydos
28.		Pani by PFB	Hibba
29.		Cristalene	Yes
30.		DEJA BLUE	Aqua Mania
31.		O2 Water	Kpl
32.		Heaven H2O	Aura
33.		Classic Plus	Viva
34.		Aqua One	Droplet
35.		Erir	DESERT DEW
36.		DOCE	Zam
37.		Sufi	Pura Light
38.		KLINZ	RO Plant pk



Sr. No	Consistent Brands	New Brands	Unavailable Brands
39.		PUREFLO	FAIHA AQUA
40.		Sundar Farms WASSER	Alfalsh Mineral Water
41.		Al-Noor	Fresco Health Water
42.		Rescue	Barclay
43.		ICE Well	7 Blue
44.		ECO	Elayn Plus
45.		Aqua Natural	Water Candy
46.		RISE Water	National
47.		Isberg	Oxygen+
48.		Bake Master	Himalaya
49.		OASIS Plus	Deosai
50.		7 Smart	HAYAT
51.		Aqua Platinum Crystal Water	AQUAX
52.		TAJ Pure Drinking Water	Al-Saudia (Water Pack)
53.		J. Smart Water	Fresh Drop
54.		Pine'o	Water Mart
55.		Panee	Pure Fine
56.		Aqua Shifa	Sprova
57.		RAKA POSHI	ZAMS
58.		Aqualine	Rahat
59.			Pure It
60.			Aqua One
61.			ATLANTIS

DISEASE POTENTIAL FROM CONTAMINATED BOTTLED WATER

Sr. No	Contaminant	Diseases Impacts
1.	Sodium	Hypertension
2.	pH	Acidity due to low pH

CONCLUSIONS

Sr. No	Item	Conclusion	
		No.	% age
1.	Total No. of Brands Collected	77	-
2.	Overall Safe Brands	73	95
3.	No. of Overall Unsafe Brands	04	5
4.	No. of Chemically Safe Brands	73	95
5.	No. of Chemically Unsafe Brands	04	5
6.	No. of Microbiologically Safe Brands	77	100
7.	No. of Microbiologically Unsafe Brands	0	0
8.	No. of Consistent Brands in Market	16	21
9.	No. of Brands Disappeared/Unavailable	61	79
10.	No. of New Brands	58	75

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

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Annexure-1

Chemical and Microbiological Quality of Bottled/Mineral Water Brands

Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	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	ppb	MPN /100ml	MPN /100ml
Nestle	BWV-01	BDL	7.75	450	248	22	35	200	70	100	11	0.30	BDL	BDL	BDL	18	BDL	Negative	Negative
Vey	BWV-02	BDL	6.69	320	176	32	15	140	50	55	8	0.40	BDL	6.7	BDL	34	0.2	Negative	Negative
OSLO	BWV-03	BDL	7.24	324	178	28	12	120	50	60	13	0.09	BDL	2.1	BDL	30	0.3	Negative	Negative
AQUAFINA	BWV-04	BDL	7.59	244	134	28	2	80	20	30	15	0.21	BDL	1.0	BDL	50	BDL	Negative	Negative
Dasani	BWV-05	BDL	7.43	258	142	8	22	110	40	12	6	0.40	BDL	BDL	BDL	66	BDL	Negative	Negative
Buxton	BWV-06	BDL	6.89	313	172	20	12	100	30	60	24	0.31	BDL	1.0	1.8	32	0.5	Negative	Negative
Pearl	BWV-07	BDL	7.63	316	174	24	17	130	40	60	10	0.36	BDL	1.4	BDL	28	0.3	Negative	Negative
Calci Dew	BWV-08	BDL	6.65	407	224	48	17	190	90	68	13	0.10	BDL	BDL	BDL	31	BDL	Negative	Negative
Maple Plus	BWV-09	BDL	8.09	401	221	44	19	190	120	18	08	0.05	BDL	1.9	1.30	60	BDL	Negative	Negative
Nectar	BWV-10	BDL	7.13	368	202	20	24	150	80	36	11	0.16	BDL	0.7	1.4	37	BDL	Negative	Negative
Softin	BWV-11	BDL	7.02	360	198	20	24	150	90	36	13	0.09	BDL	0.8	2.2	29	BDL	Negative	Negative
Sea Pack	BWV-12	BDL	6.84	391	215	28	19	150	60	50	18	0.18	BDL	0.4	BDL	62	BDL	Negative	Negative
Fresh Life	BWV-13	BDL	6.64	156	86	16	5	60	40	10	8	0.10	BDL	0.8	3.6	11	BDL	Negative	Negative
Hydr8	BWV-14	BDL	7.19	550	303	60	24	250	180	36	20	0.12	BDL	1.0	2.7	57	BDL	Negative	Negative
Hydra	BWV-15	BDL	7.23	455	250	52	15	190	170	24	22	0.21	BDL	0.8	1.3	27	BDL	Negative	Negative
Sunlay Pure	BWV-16	BDL	7.15	454	250	48	19	200	160	30	22	0.16	BDL	0.8	1.3	28	BDL	Negative	Negative
Aquantis	BWV-17	BDL	7.44	435	239	60	12	200	130	48	13	0.21	BDL	1.1	2.2	25	BDL	Negative	Negative
Nestol	BWV-18	BDL	7.20	300	165	40	10	140	60	50	7	0.18	BDL	0.7	BDL	15	0.2	Negative	Negative

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
																		Total Coli forms 0/100ml	E-coli 0/100ml
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGV S	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Fresh Sprinkle	BWV-19	BDL	7.35	359	197	24	22	150	130	12	14	0.09	BDL	2.2	1.3	22	0.2	Negative	Negative
Venora	BWV-20	BDL	7.82	422	232	44	24	210	150	24	7	0.32	BDL	1.2	1.3	42	BDL	Negative	Negative
Water Plus	BWV-21	BDL	7.31	267	147	20	10	90	50	36	21	0.13	BDL	1.6	0.9	28	BDL	Negative	Negative
Elim	BWV-22	BDL	7.49	261	144	20	10	90	50	40	21	0.04	BDL	0.2	1.4	22	BDL	Negative	Negative
MEHR	BWV-23	BDL	7.00	432	238	32	10	120	130	35	47	0.12	BDL	1.1	2.8	36	BDL	Negative	Negative
Aqua Splash	BWV-24	BDL	6.99	292	161	20	17	120	40	50	8	0.08	BDL	0.5	3.3	18	0.3	Negative	Negative
NEBRASKA	BWV-25	BDL	7.32	441	243	16	39	200	85	96	13	0.32	BDL	BDL	BDL	7	0.3	Negative	Negative
Top Up	BWV-26	BDL	7.54	518	285	32	32	210	95	85	26	0.16	BDL	BDL	BDL	40	0.2	Negative	Negative
Natural AQWAH Water	BWV-27	BDL	7.64	315	173	28	19	150	90	12	10	0.20	BDL	0.8	3.1	40	0.3	Negative	Negative
DUA	BWV-28	BDL	6.62	335	184	28	19	150	65	48	14	0.22	BDL	0.2	0.6	35	0.4	Negative	Negative
Aquatic Fresh	BWV-29	BDL	7.65	438	241	24	32	190	130	36	14	0.38	BDL	1.3	4.4	25	0.3	Negative	Negative
Marina	BWV-30	BDL	7.51	487	268	40	27	210	190	16	14	0.34	BDL	1.1	2.9	24	0.4	Negative	Negative
Moya Mineral Water	BWV-31	BDL	7.33	333	183	20	22	140	90	32	12	0.05	BDL	0.9	3.2	26	0.2	Negative	Negative
Aqua Pura Smart	BWV-32	BDL	7.25	417	229	36	22	180	50	82	9	0.34	BDL	BDL	BDL	34	0.4	Negative	Negative
Wah Water	BWV-33	BDL	7.71	318	175	26	18	140	110	12	10	0.31	BDL	0.9	3.0	29	0.3	Negative	Negative
AQUWA Plus	BWV-34	BDL	7.10	362	199	20	15	110	70	50	29	0.32	BDL	9.9	BDL	34	0.2	Negative	Negative
Super Natural	BWV-35	BDL	6.72	446	245	BDL	12	50	90	55	76	0.18	BDL	2.6	0.9	42	2.3	Negative	Negative
Nicely Puri Zindagi	BWV-36	BDL	6.75	247	136	BDL	7	30	60	20	42	0.10	BDL	2.1	0.6	28	1.9	Negative	Negative
Nation Pure Water	BWV-37	BDL	7.33	479	263	32	29	200	120	72	27	0.16	BDL	0.3	BDL	33	2	Negative	Negative
Eden Pure Water	BWV-38	BDL	6.96	326	179	24	17	130	50	38	13	0.09	BDL	BDL	BDL	61	1.7	Negative	Negative

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
																		Total Coli forms 0/100ml	E-coli 0/100ml
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGV S	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
EVO Aqua	BWV-39	BDL	7.34	282	155	20	10	90	50	36	18	0.09	BDL	BDL	BDL	30	2.9	Negative	Negative
Dasani	BWV-40	BDL	7.14	264	145	BDL	29	120	40	10	8	0.14	BDL	0.3	BDL	75	BDL	Negative	Negative
Pani by PFB	BWV-41	BDL	7.12	272	150	24	15	120	35	50	12	0.05	BDL	BDL	BDL	19	0.9	Negative	Negative
Jami Water	BWV-42	BDL	6.98	414	228	44	-2	100	90	72	47	0.03	BDL	0.6	2.0	14	0.8	Negative	Negative
Cristalene	BWV-43	BDL	7.50	301	166	24	17	130	40	72	6	0.03	BDL	BDL	BDL	9	0.8	Negative	Negative
DEJA BLUE	BWV-44	BDL	6.90	284	156	8	12	70	50	48	36	0.06	BDL	0.4	BDL	27	0.9	Negative	Negative
Gourmet	BWV-45	BDL	7.08	407	224	40	12	150	60	86	27	0.71	BDL	0.3	BDL	26	0.8	Negative	Negative
O2 Water	BWV-46	BDL	7.23	362	199	20	19	130	50	70	21	0.18	BDL	BDL	BDL	24	1.2	Negative	Negative
Heaven H2O	BWV-47	BDL	6.71	304	167	16	12	90	50	48	31	0.06	BDL	BDL	BDL	33	0.8	Negative	Negative
Aqua Safe	BWV-48	BDL	7.53	339	186	24	5	80	100	26	42	0.08	BDL	1.4	BDL	34	5.2	Negative	Negative
Classic Plus	BWV-49	BDL	6.16	352	197	28	15	130	50	70	21	0.13	BDL	1.0	BDL	26	1.0	Negative	Negative
Aqua One	BWV-50	BDL	7.79	359	197	28	5	90	60	48	34	0.51	BDL	BDL	BDL	35	0.9	Negative	Negative
Erir	BWV-51	BDL	6.87	359	183	28	17	140	50	70	17	0.29	BDL	BDL	BDL	28	0.9	Negative	Negative
DOCE	BWV-52	BDL	6.70	333	200	16	19	120	70	48	26	0.09	BDL	0.5	BDL	35	1.2	Negative	Negative
Sufi	BWV-53	BDL	7.19	363	181	40	10	140	50	60	11	0.51	BDL	0.2	BDL	34	0.8	Negative	Negative
KLINZ	BWV-54	BDL	6.09	329	235	32	17	150	50	60	8	0.28	BDL	BDL	BDL	35	0.9	Negative	Negative
PUREFLO	BWV-55	BDL	7.41	427	235	32	17	150	100	65	36	0.28	BDL	BDL	BDL	22	0.9	Negative	Negative
Aquafina	BWV-56	BDL	7.46	218	120	BDL	17	70	40	26	16	0.14	BDL	1.0	BDL	36	0.8	Negative	Negative
Sundar Farms WASSER	BWV-57	BDL	6.65	339	186	28	12	120	50	72	24	0.21	BDL	0.4	BDL	17	5.2	Negative	Negative
Nestle	BWV-58	BDL	7.67	486	267	60	12	200	80	100	21	0.22	BDL	0.4	BDL	36	0.9	Negative	Negative
Al-Noor	BWV-59	BDL	7.01	340	187	40	15	160	60	70	9	0.21	BDL	BDL	BDL	23	1.2	Negative	Negative
Rescue	BWV-60	BDL	7.14	365	201	16	22	130	80	36	24	0.12	BDL	0.7	BDL	40	0.9	Negative	Negative
ICE Well	BWV-61	BDL	7.59	355	195	20	5	70	100	36	49	0.12	BDL	1.3	BDL	25	1.0	Negative	Negative

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	* Microbiological Contaminants	
																		Total Coli forms 0/100ml	E-coli 0/100ml
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGV S	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
ECO	BWV-62	BDL	7.44	439	241	36	2	100	100	55	50	0.18	BDL	1.6	BDL	42	0.9	Negative	Negative
Aqua Natural	BWV-63	BDL	7.23	352	194	40	12	150	160	12	16	0.16	BDL	3.7	BDL	6	1.8	Negative	Negative
RISE Water	BWV-64	BDL	7.11	316	174	28	12	120	60	60	17	0.04	BDL	1.1	BDL	11	0.9	Negative	Negative
Isberg	BWV-65	BDL	7.49	353	194	28	5	90	110	48	42	0.10	BDL	0.7	BDL	BDL	1.3	Negative	Negative
Bake Master	BWV-66	BDL	7.39	349	192	28	17	140	70	48	14	BDL	BDL	4.0	BDL	37	1.7	Negative	Negative
OASIS	BWV-67	BDL	7.67	518	285	44	29	230	270	12	35	0.12	BDL	0.6	BDL	BDL	0.9	Negative	Negative
7 Smart	BWV-68	BDL	6.95	230	127	16	5	60	40	38	25	0.07	BDL	2.5	BDL	24	1.9	Negative	Negative
Aqua Platinum Crystal Water	BWV-69	BDL	7.37	389	214	28	5	90	90	36	39	0.20	BDL	1.4	BDL	48	1.0	Negative	Negative
TAJ Pure Drinking Water	BWV-70	BDL	7.85	573	315	20	27	160	160	38	60	0.32	BDL	2.5	BDL	73	2.5	Negative	Negative
J.Smart Water	BWV-71	BDL	7.12	385	212	32	10	120	70	60	33	0.10	BDL	2.5	BDL	40	0.5	Negative	Negative
Pine'o	BWV-72	BDL	7.59	381	210	40	10	140	70	65	24	0.05	BDL	0.7	BDL	32	0.8	Negative	Negative
Piyaas Plus	BWV-73	BDL	7.85	385	212	28	5	90	100	36	47	0.22	BDL	2.8	BDL	40	9.5	Negative	Negative
Panee	BWV-74	BDL	7.16	324	178	36	5	110	50	60	22	0.20	BDL	2.2	BDL	30	0.2	Negative	Negative
Aqua Shifa	BWV-75	BDL	7.35	379	208	40	12	150	50	72	20	0.13	BDL	0.6	BDL	34	1	Negative	Negative
RAKA POSHI	BWV-76	BDL	8.10	330	182	36	12	140	100	20	15	0.20	BDL	1.1	1.7	31	BDL	Negative	Negative
Aqualine	BWV-77	BDL	7.47	356	196	32	10	120	50	60	27	0.16	BDL	0.3	2.6	32	BDL	Negative	Negative