

Supporting Information

Table S1. Laboratory results from tests performed Feb 24, 2019.

Test Parameter	Units	Testin g Limit	Tap	Pharta	Nag Zhar (spring)	Bore Well	Indian Standards BIS IS: 10500	
Testing name:			NS-1	NS-2	NS-3	NS-4	Requireme nt	Permissable Limit
Color	n Units	1	-	-	-	-	5	15
Odour	NA	NA	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable
Taste	NA	NA	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable
Turbidity	NTU	1	-	-	-	-	1	5
Total dissolved solids	mg/L	1	21.00	14.00	34.00	79.00	500	2000
pH	NA	1	7.43	6.79	6.53	6.66	6.5-8.5	no relaxation
Boron B	mg/L	0.005	0.006	0.006	0.006	0.008	0.5	1.0
Bicarbonates	mg/L	10	19.80	9.90	19.80	89.10	NA	NA
Copper Cu	mg/L	0.001	-	-	-	-	0.05	1.5
Carbonates	mg/L	1	-	-	-	-	NA	NA
Nitrate NO3	mg/L	0.1	0.63	-	0.21	1.32	45	no relaxation
Nitrite NO2	mg/L	0.01	-	-	-	-	NA	NA
Flouride F	mg/L	0.1	0.25	-	-	0.16	1.0	1.5
Zinc Zn	mg/L	0.005	0.006	-	0.005		5	15
Silver Ag	mg/L	0.001	-	-	-	-	0.1	no relaxation
Total suspended solid	mg/L	10	-	0.002	0.002	0.002	NA	NA
Fixed solids	mg/L	10	-	0.002	0.002	0.002	NA	NA
Chloride Cl	mg/L	5	12.41	10.64	9.31	14.18	250	1000
Selenium Se	mg/L	0.005	-	-	-	-	0.01	no relaxation
Sulphate SO4	mg/L	0.1	0.96	0.29	1.00	0.77	200	400
Alkalinity to phenolphthalein	mg/L	1	-	-	-	-	NA	NA
Calcium Ca	mg/L	1.0	3.23	10.50	5.56	13.73	75	200
Total alkalinity CaCO3	mg/L	1	19.80	9.90	9.80	89.10	200	600
Magnesium Mg	mg/L	5	-	-	-	-	30	100
Sodium Na	mg/L	1	-	-	-	-	NA	NA
Potassium K	mg/L	1	-	-	-	-	NA	NA
Residual free chloride	mg/L	0.1	-	-	-	-	NA	NA
Phenolic compounds	mg/L	0.001	-	-	-	-	0.001	0.002
Ammonical nitrogen	mg/L	1	-	-	-	-	NA	NA
Total hardness CaCO3	mg/L	1.0	8.08	28.28	18.18	36.36	200	600
Iron Fe	mg/L	0.005	0.018	-	-	-	0.3	no relaxation

Manganese Mn	mg/L	0.001	-	0.03	0.00	0.00	0.1	0.3
Cadmium Cd	mg/L	0.001	-	-	-	-	0.003	no relaxation
Lead Pb	mg/L	0.001	-	-	-	-	0.01	no relaxation
Mercury Hg	mg/L	0.0005	-	-	-	-	0.001	no relaxation
Molybdenum Mo	mg/L	0.001	-	-	-	-	0.07	no relaxation
Nickel Ni	mg/L	0.005	-	-	-	-	0.02	no relaxation
Arsenic As	mg/L	0.001	-	-	-	-	0.01	0.05
Chromium Cr	mg/L	0.001	-	-	-	0.002	0.05	no relaxation
Lithium Li	mg/L	0.001	-	-	0.003	0.006	NA	NA
Reactive silica	mg/L	0.05	-	-	-	-	NA	NA
Tin Sn	mg/L	0.001	-	-	-	-	NA	NA
Vanadium V	mg/L	0.001	-	-	-	-	NA	NA
Pesticides:	Units	Testing Limit	House (tap)	Pharta	Nag Zhar (spring)	(borewell)	Limit	
Chlorpyrifos	ug/L	0.01	-	-	-	-	30	
Methyl Parathion	ug/L	0.01	-	-	-	-	0.3	
Monocrotophos	ug/L	0.01	-	-	-	-	1	
Phorate	ug/L	0.01	-	-	-	-	2	
Imidocloprid	ug/L	0.01	-	-	-	-	NA	
Bromodiolone	ug/L	Qual	-	-	-	-	NA	
Fipronil	ug/L	0.01	-	-	-	-	NA	
Aldrin/Dieldrin	ug/L	0.01	-	-	-	-	0.03	
Endosulfan (sum of Ipha, Beta, and Sulfate)	ug/L	0.01	-	-	-	-	0.4	
DDT (O,P and P,p isomers of DDT, DDD, DDE)	ug/L	0.01	-	-	-	-	1	
COD	mg/L	3.0	20.00	70.00	40.00	30.00	NA	
BOD	mg/L	5.0	-	10.00	6.00	-	NA	
Handheld Results:			Subash House	Pharta	Nag Zhar (spring)	My Well (borewell)	Requirement	Permissible Limit
pH	-		6.62	5.24	5.22	5.76	6.5-8.5	no relaxation
TDS	ppm		21	21	28	54	500	2000
EC	us/cm		42	42	54	128	NA	NA
Temp	F		70.1	70.5	71.6	76.1	NA	NA