

5th Status Report of Global Grant Project , No 25607, dated 24th May , 2013

Rtn Rajkamal Bhuyan, contact person of the Global Grant no 25607 of R C Gauhati South is pleased to inform you that the Report for Arsenic Testing has been received from PHE, Belsor Laboratory and it gives me tremendous satisfaction to inform the members of our club as well as Dr Arvind Phukan & Dr Harry Knopke that the Water Quality obtained after the filtration process and removal of arsenic contamination in the 3 (three) schools is devoid of arsenic contamination , as evident from the table enumerated below for ease of comparison.

Kordoitola LP School

Parameters	Before Filtr.	After Filtr.	Permissible Limit
PH	7.56	7.50	No relaxation
Iron (mg/l)	0.47	0.40	1
Arsenic (mg/l)	0.1318	0.0010	0.05
Total Hardness(mg/l)	308	324	600
Ca Hardness (mg/l)	100	130	200
Mg Hardness (mg/l)	50.54	47.14	150
Chloride (mg/l)	12	162	1000
Alkalinity (mg/l)	156	148	600

Digheli L P School

PH	7.63	7.63	No relaxation
Iron (mg/l)	0.75	0.30	1
Arsenic (mg/l)	0.1360	0.0035	0.05
Total Hardness(mg/l)	312	306	600
Ca Hardness (mg/l)	90	80	200
Mg Hardness (mg/l)	53.90	54.90	150

Chloride (mg/l)	76	82	1000
Alkalinity (mg/l)	66	100	600

Barchenekuchi L P School

PH	8.01	7.61	No relaxation
Iron (mg/l)	0.71	0.62	1
Arsenic (mg/l)	0.0931	0.0020	0.05
Total Hardness(mg/l)	260	360	600
Ca Hardness (mg/l)	70	150	200
Mg Hardness (mg/l)	46.17	51.03	150
Chloride (mg/l)	8	32	1000
Alkalinity (mg/l)	218	138	600

It was observed that the Arsenic contamination was successfully removed, and the result is merely 4% to 6% of the permissible limit. All other parameters are also within permissible limit and as such, we are happy about the successful pilot project implementation of the arsenic removal plant.

The members have also discussed about obtaining another report from the Gauhati University, and for this Rtn Hareswar Talukdar has already contacted the university authority and it is expected that this will be done within June, 2013. This will give us an additional independent report about the result of our arsenic removal plants in these three schools.

As for the 4th School, where this pilot project will be used, it was observed that the selected site for the 4th school, Bihampur Girls High School has an arsenic contamination level of only 0.0443 as given in the report, which is below the permissible limit of 0.05 .

The club construction committee members, Rtn Prashanta Goswami. Rtn B N Das, Rtn Subhabrata Sarma and Rtn Raj kamal who have visited the sites yesterday, 23rd May opined that since the 4th school has permissible Arsenic contamination, we can forgo the installation of arsenic removal plant in that school and keep it in reserve for installation

in some other school, where the arsenic level could be higher than the permissible limit. In this Bihampur Girls High School, it was decided to have a iron removal plant, since the Iron level is found to be almost six times the permissible limit, as per the Report of PHE.

The members also visited a few schools where deep tube wells will be sunk and identified the sites to the contractor selected for it. The said contractor Sri Promod Barman shall install the deep tube wells in the following five (5) schools.

- 1) Nalbari High Madrasasa School : Student strength : 400
- 2) Helocha Higfh School : Student strength : 260
- 3) Ghograpara Bonbhag Junior College : Student Strength : 400
- 4) Ghograpara Girls High School : Student strength : 450
- 5) Ghograpara High School : Student strength : 667

The Headmasters/ Principal concerned were present at the school sites and had a fruitful discussion with the Rotarian members about the installation of Deep Tube Wells. All these five schools have electrical power connection and as such, submersible pumps will be installed. A water reservoir at a height of 15-17 feet, mounted on steel structures, with filtration system wherever necessary , will also be installed in these schools.

