



**Water Security in Peri-urban South Asia:
Adapting to Climate Change and Urbanization**



Exposure visit for Lubhu

Date: 16 the Chaitra 2069/29- March 2069

Lubhu water Resource Committee has been consistently involved in exploring opportunities to improve water management state in Lubhu through Filtration System for Dovan River. Considering the request on the needs of expanding the knowledge on the technological aspects of the system, Peri-urban research team has facilitated on the second round of exposure visit continuing the capacity building of local water resource committee. This visit was also accompanied by an Engineer from Lalitpur Drinking Water Division who has been and is expected to be involved for the technological support during the construction of the stated filtration system.

Three Water Treatment Plants comparable to the proposed filtration system in Lubhu located at Dulikhel, Imadol and Sidhipur were visited. While the Peri-urban team arranged for the meeting with expert from Dulikhel Drinking Water Supply, the meetings for the rest two were arranged by the Lubhu Water Resource Committee themselves. This demonstrated the institutional capacity building of Lubhu Water Resource Committee during a period of around two years after its constitution under the facilitation of nec-peri-urban Research Team. Along with exploring and expanding knowledge on the best applicable filtration system as per their local context, this Committee has also been strengthening its financial resource through various programmes and one of such was a week of Religious programme conducted during the November-December.

The first site visited during the one day exposure visit was Dulikhel where the committee members clarified their queries through consultation with expert from Dulikhel Water Supply System, Mr. Rameshwor Parajuli. Based on his over decade long experiences on the water supply system, Mr. Parajuli highlighted upon the need of detailed study of the features of water source prior to selection of the infrastructure construction. Further sharing the instances from successful and unsuccessful water supply systems within and outside the valley he explained on the possible technologies that have been adopted at various sites and suggested on exploring and exercising on such prior to designing the treatment plant appropriate for Lubhu. Showing the layer formed by the impurities and mosses over the water surface, he explained it as an indication of time for the cleaning of the sedimentation tanks of the treatment plant. Along with the engineer from Lalitpur Drinking Water Division Office, the committee members also observed the water treatment arrangements in the Dulikhel Water Supply system wherein Mr. Parajuli shared the positive and negative aspects of the system and the modifications that could be to such a system for reducing the investment and increasing the efficiency. He mentioned about the available technological advancement in the sector of water treatment plants and showed his interest to provide voluntary guidance in developing the Filtration System for Lubhu. Expressing his interest in water supply system, Mr. Parajuli agreed to share the design maps of Dulikhel Water Supply System and also showed his commitment to continue providing the needed help for Lubhu Water Resource Committee.



The next site visited was Water Treatment Plant of Imadol Drinking Water Supply System. This system used tube settler for the treatment which was absent in the earlier visited Treatment Plant. This being a relative small system made under the Governmental support Lubhu residents felt this was more comparable to their financial capacity. Members of Lubhu Water Resource Committee consulted with the operator of the system on the operational status and maintenance of the system. The Lubhu Water Resource Committee decided that the members of Lubhu water Supply Committee with knowledge on technical aspects and the Supporting Engineer will be revisiting the site for the detailed understanding of the design and continuing the consultation for more technical aspects of the structure.





The third site visited was Sidhipur where the Engineer from Lalitpur Division Office discussed with the experts from Sidhipur Water Treatment Plant on the water transfer, storage and supply system and also observed the use of Tube Settler in the treatment process. As per the facilitators from, the system, the water supply service has been in smooth operation since its construction 13 years back and the treatment plant in Imadol was based on the success of Sidhipur treatment plant. Members from Lubhu water Resource Committee were more interested in the investment needed, arrangement of supporting organization and involvement of local residents including the management aspect and charges for local residents and immigrants.

The members of Lubhu Water Resource committee felt the need of continuing the consultation over the construction phase and requested the experts for their help for which the experts from all the three observed treatment plants have shown willingness. Besides observation and advancement of the knowledge on filtration system, the second round of exposure visit has provided the members of Lubhu Water Resource Committee opportunity of improving the networking with between the experts from all the three visited Water Treatment Systems. This has been expected to be beneficial for the continuing the consultation.



As the Lubhu water resource committee was constituted after the entry of Peri-urban research team and has been capacitated under the capacity building activities of the project, there was fear of dissolution of the committee after the completion of project interventions. However considering the dedication and willingness among the Lubhu Water Resource Committee

Members, Peri-urban Research Team has been very hopeful that, the Committee will continue to work for the water secured Lubhu.

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