**TECHNICAL REPORT**

**Name of the Project :** Haor Flood Management and Livelihood Improvement Project (BWDB Part).

**Name of the Work :** Pre-workSurvey work for Embankment Aralia Sub-project & Bashira River sub-project in c/w Haor flood management and livelihood improvement project (BWDB Part) in upazila Baniyachong & Ajmirigonj, Dist.-Habigonj under Hobigonj O&M Division, BWDB, Hobigonj during the financial year 2018-19.

**Description:** The Aralia Khal Scheme is situated in Habiganj district under the jurisdiction of Baniachong, Habiganj Sadar and Lakhai Upazila. The scheme is bounded by the Ratna River and Pucca road in the north, the Khowai River to the south and plain land to the east. The project was implemented during 1995-96 to 2004-05. The project covers a gross area of 2736.30 ha and net area is 2328.9 ha. The land elevation of the sub-project area varies from 1.10 m PWD to 7.70 FWD and about 50% of the area is lying below 3.80 m PWD. Both Annan and Boro crops area grown in the project area. The T Annan are grown relatively in higher lands. The operation and maintenance of the project is functioning and presently the project is functioning not in a good form. As such, the project is included in rehab program to restore the original objective of the project.

**Findings of the Survey:** Ground Level along surveyed location varies from max 4.89m-PWD to minimum 1.23 m-PWD with average GL is 3.098 m-PWD. From above data, it can be inferred average embankment height 5.13-3.098=2.03m

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**Description:** The Bashira River Scheme is situated in Habiganj district under the jurisdiction of Ajmiriganj and Baniachong Upazila. It is bounded by Kalni River and Bashira River in the west. In the north, east and south, there is no physical object to define the boundary of the sub-project. The river was re-excavated in 1981-02. The submersible embankment was constructed during 2001-02 and regulators were constructed in 1986-87. The project covers a gross are of 4077.1 ha and net area 81.2 ha respectively. The land elevation of the sub-project area varies from 1.30 m PWD to 7.80 mPWD and about 50% of the area is lying below 4.50 m PWD. Both Annan and Boro crops area grown in the project area. The T Annan are grown relatively in higher lands. The operation and maintenance of the project is frustrating and presently the project is functioning not in a good form. As such, the project is included in rehab program to restore the original objective of the project.

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**Description:** Bangladesh is a small south-west Asian deltaic country formed out of the alluvial deposits of the Ganges-Brahmaputra-Meghna (GBM) River system. Bangladesh is vulnerable to climate change because it is densely populated, located in low-lying delta, subjected to flooding during the monsoon season and suffers water shortage during the dry season. Water is the most precious natural resource of Bangladesh, but on the other hand it is also one of the most difficult resources to control and exploit. In the upper Meghna River basin, so called `haor" areas stretch over the north-eastern districts and 8600 square km of the land area become inundated during the monsoon period. Agriculture, especially paddy cultivation and fishery are the main activities in the region. The rice production in the haor areas, mostly Boro rice cultivation is about 5.3 milion tons per year, which accounts for about 16% of the total production of the country. Flash flood caused by severe rainfall in the mountainous area in India in the pre-monsoon period causes severe damages to paddy fields just before harvesting. Accordingly to protect the crops from pre-monsoon flood and increase irrigation this Project has been taken in hand, financed by GoB and JICA jointly. This project covered six districts of Bangladesh in north-eastern region; Habiganj district is one of them. Within Habiganj district rehabilitation of Makhar haor was included in this project which consist of construction of submergible embankment, construction of regulator/causeway and pipe sluice and re-excavation of khal.

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