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Memo

To: Guy Jones, Team Leader
From: Angela Thompson, Knut Oberhagemann
cc: Peter de Vries, EKN; Erik Mosselman, Deltares
Date: March 2017
Re: Site visit on 13 March 2017

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1 Introduction

Both Blue Gold and the Flood and Riverbank Erosion Risk Management Investment Program (FRERMIP), Project-1 are implemented by the Bangladesh Water Development Board (BWDB) with financing from the Dutch Government – in the case of FRERMIP, it is routed through the ADB. Both projects incorporate pilot works into their design with the purpose of testing innovative, low-cost structures and river training approaches relevant to the project concepts. In both cases the Royal Netherlands Embassy (RNE) strongly guided the consultant's and BWDB's design team to apply the concept of "semi-permeable" spurs, which consist of vertical pile structures with screens closing the top half of the cross section. The concept replicates the well-known and widely used bancalling, and in terms of dimensions for Blue Gold the application of "improved bancalls" tested during the times of FAP22 in the Jamuna upstream of Phulchari from 1996 until 1999. The concept is suitable for non-tidal sand-bed rivers with defined flow direction, where it is able to achieve some accumulation of sediment downstream of the bancalls.

A joint team of consultants from Blue Gold and FRERMIP visited Polder 22 and 29, located opposite of the Lower Bhadra River on 13 March. The team consisted of:

Guy Jones	Team Leader Blue Gold,	
Mofazzal Ahmed	Program Leader IWRM Blue Gold	
Alamgir Chowdhury	Deputy Team Leader Blue Gold	...
Knut Oberhagemann	Team Leader FRERMIP	
Angela Thompson	Numerical Modeller FRERMIP	

The team assessed the breached embankments in Polder 29 (Figure 1-1) where the application of "semi-permeable spurs" has been proposed as pilot works to secure the site against erosion, as well as the geotechnical failure of the embankment at Polder 22. Apart from information pertaining to the pilot works, general design and construction experience about BWDB design and construction works were exchanged and are reflected in this memo. In addition, emergency measures, a part of both projects, were discussed.

This memo is structured in three main sections: Section I Data Collection looks at the data needs for meaningful designs and monitoring. Section II Emergency Works discusses the risk during the upcoming flood season and suggests potential emergency measures. Section III Long-term



Figure 1-1: Breach area of the Ghaghar area of Polder 29, where the embankment breacher stage has changed (EKN, December 2012)

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Report on site visit (author Angela Thompson)

P29

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[Saad.chowdhury](#) ([talk](#) | [contribs](#))

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This page was last edited on 8 July 2020, at 12:42.

Blue Gold Program Wiki

The wiki version of the Lessons Learnt Report of the Blue Gold program, documents the experiences of a technical assistance (TA) team working in a development project implemented by the Bangladesh Water Development Board (BWDB) and the Department of Agricultural Extension (DAE) over an eight+ year period from March 2013 to December 2021. The wiki lessons learnt report (LLR) is intended to complement the BWDB and DAE project completion reports (PCRs), with the aim of recording lessons learnt for use in the design and implementation of future interventions in the coastal zone.

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