Report on site inspection to provide installation guidance of JGT for on the slope of water harvesting tank at Burdwan on 17th-18th July, 2018

As an outcome of the one-day Awareness Workshop on JGT conducted by NJB in association with Agri-irrigation dept. Govt. of WB on 19.01.18 at BDA Conference Hall, Burdwan in presence of Dr. Subrato Gupta-Principal Secretary, of Agri-irrigation, Sri Anurag Srivastava-DM, Burdwan, Sri K Nag Choudhury- Secretary- Agri- Irrg., Sri Avind Kumar-Secretary, NJB and others a decision was taken by Agri-Irrigation dept to use JGT for stabilizing the water side slope of no. of rain water harvesting tanks in the district of Purba Burdwan and Bankura and other places.

On request of the dept, specification of 500 gsmow JGT, list of manufacturers and a write up on installation guidance of JGT were provided by NJB JGT cell. After constructing the tank in a planned way and procurement of 6,000m² of 500gsm OW JGT the concerned engineer requested NJB on 13.7.18 to visit Burdwan for providing installation guidance at the earlist. Accordingly with the concurrence of secretary, Sri P.K.Choudhury visited the sites for the aforesaid purpose on 17th&18th July, 2018. When he was accompany by Sri Goutam Chakraborty-AE, Sri K.K. Mondal-AE, Sri SouravMitra-SAE, Sri Abir Mukherjee-SAE, Sri KoushikChakraborty-Supervisor of the department along with work force of the agency, M/S. B.N. Gupta. The site was situated at village Goal Para, Block-Aushgram-II, District- Purba Burdwan, West Bengal. The dimension tank was 110 m.(L) X 90m.(B) have the depth of about 15 m with a slope angel of about 35° type soil soil was murom and hence necessitated to covering the slope surface with about 50mm thick layer of good earth for facilitating vegetation. Considering the convenience of installation on this particular site the fabric was laid across the slope (instead along the length of slope) starting from the bottom and anchored at lower side of the selvedge of fabric on the trench dug along the bottom line of slope touching the tank bed. After fixing JGT on the trench with inverted “U” shaped GI hook at an interval of 100 cm it was covered with soil. The next pieces of JGT was laid above the bottom one with an overlap of 100mm along the selvedge of fabric and overlap portion was anchored with GI hook as of the former one. In this way one on another fabric was laid to cover the entire surface of the slope including the 2 m wide span of benching prepared at the middle of slope length. The dept. was advised to plant grass or locally available spices on the surface soil through the openings of the fabric.

The storing site of JGT was also inspected but found that the bales were kept directly on ground without any cover on it. The dept was advised to shift the bales instantly to a go down and cover the same with suitable material in order to avoid chances of damage likely to be caused due to contact with soil and water.

As requested by the A E, Inspection of other following two sites were also done where existing ponds were planned to convert into bigger size rain water harvesting tanks- 

(I) Site at village -Takipur II, Block-Aushgram-I, Purba Burdwan. The proposed area of tank was 120 m x 90 m with a depth of about 10m.

(II) site at village –Tokipur I, Block-Aussgram -I, Purba Burdwan. The proposed tank was 250 m x 150 m with a depth of about 10 m.

Considering the slope angle and type of soil it was advised to use 500 GSM-OW JGT for strengthening the slope of tank. Photographs of all the three site were taken for reference.
Inlet of catchment water into the tank

Constructed water harvesting tank having vulnerable slopes

Demonstration of laying of JGT on slope

Demonstration of laying of JGT at site

Laying of JGT in progress

A view of project site at Goalpara, Aushgram-II Block, Purba Burdwan