Based on clearance for construction of 61 rural roads with JGT under PMGSY in WB construction works have been started in 5 districts. Sri Swapan Ghosh, Executive Engineer of Murshidabad district decided to undertake construction of one out of his 9 roads in the district on 23rd June 2017 and requested NJB to provide installation guidance of JGT.

With the concurrence of Secretary NJB, Sri P K Choudhury -Principal Technologist visited the site for the said purpose. The site is located at Berhampore Block and the 9.221 km stretch of road starts from Paglatek to Pirtala. Type of soil is silty clay with high Plasticity Index and CBR value ranges from 3.9 to 4%. As per in the provision of DPR, 25 mm thin layer of sand was spread over the prepared compacted subgrade followed by rollercompaction. 724 gsm woven JGT of 25kN/m tensile strength with an average width of 103 cm was laid side by side with an overlap of about 70 mm and the fabric was fixed on to the ground with iron nail. The agency procured the fabric from Reliance Jute mills and was tested by IJIRA. However the samples on visual inspection at site appeared to be in order although having some minor faults like, warp breakage and dent mark which was brought to the notice of mill authority.

A layer of 25mm sand was again spread over the JGT followed by 75 mm thick layer of GSB-II that consisted of laterite and sand (70 :30 %). GSB was compacted with roller to the desired level keeping the provision of camber of about 3.5%.

During demonstration at this site the EE also deputed the Asst. Engineers and Sub-Asst. Engineers of other sites of the district also to make them aware of the methodology adopted for application of JGT in the interface of sub-grade and sub-base. In addition to the entire work force of the agency Ms. Sagata Mandal -AE, Ms. Namita Marjit- SAE, Sri Soham Bhattachya-AE, Sri Saikat Dhar-SAE, Sri Kuntal Ghosh– SAE, Sri Abhijit Nandy- SAE and six other engineers/ Officers of Murshidabad Zilla Parisad were Present at site who enquired on various technical issues on JGT related works which were addressed accordingly.

On the next day a meeting was held with Sri Dip Narayan Sil - EE, PWD(NH Division) Murshidabad who applied JGT of same type on a State High Way near Sagardighi under the technical support of NJB. The meeting was attended by the PMGSY engineers also. The EE informed that the performance of JGT treated stretches of the road is in very good shape and no subsidence, pothole or reflection crack appeared on the road surface. He also gave written comments about the present condition of the road. Photographs of the roads were also taken for documentation purpose.