Report on site inspection and provide installation guidance on construction of rural road in Kalna Block- II, Burdwan district on 23.11.2017 by P K Choudhury

On receiving approval of NRRDA about 65 rural roads under PMGSY in WB is under construction with the use of JGT. NJB, as technology provider has been rendering all sorts of technical services to the user agencies and the engineers right from procurement to installation of JGT. As requested by Sri Gautam Sanyal - Executive Engineer of Burdwan district under WBSRDA and with the concurrence of the Secretary, NJB Sri P K Choudhury- Principal Technologist, NJB visited the road site for inspection and to provide installation guidance on application of JGT on 23rd November, 2017.

A stretch of 3.80 km rural road from Jhero Jamirtala to Bansai in Kalna block- II, district Burdwan was the proposed site. During demonstration Sri Prabir Banejee-AE and Smt. Orpita Pal along with the entire team members of the agency (contractor), M/S Gouri Construction were present at site. 5,000 sq.m. as a part of total quantity of 16,000 sq.m. woven JGT of 724 gsm, 25 kN/m tensile strength was procured by the agency from Shyamnagar (Aditya Traslink) Jute Mills. The fabric was reported to be tested by IJIRA which is yet to be received by the concerned dept / agency. However, on visual inspection it was found that the fabric contained some major and minor fabric faults like, multiple and single warp breakage, gaw / dent mark etc. From the site itself the competent authority of the mill has been informed about the fabric faults for which technical advice was given to rectify the defects immediately.

As per designed cross-section of the road shown in the DPR a thin layer of 25 mm sand cushion was provided on the roller compacted sub-grade having proper camber (3.5%) on which 4 and a half number of 1m wide JGT were laid side by side with an overlap of about 100 mm. 150 mm overlap was given longitudinally. In the instant case the total width of sub-grade covered with JGT was only 4.05 m in place of 4.60m as per decided by the EE. After fixing the JGT on to the ground with the help of iron nail and washer a further layer of 25 mm sand was spread over JGT and compacted with roller. Thereafter, two layers of GSB II were spread followed by roller compaction. The storing site of JGT was also checked and suggested to the agency that the material must be kept on wooden plank instead of on to the casted floor. Photographs of the site were taken during installation and the engineers were requested to take photographs of the subsequent stages including the road being opened to traffic.

Overall progress of the road was found to be satisfactory.
প্রধানমন্ত্রী গ্রাম সড়ক যোজনা

বর্ধমান জেলা
প্রকল্পের নাম ৫
বেড়া জমিরতলা হইতে বাসাই পর্যন্ত
কালনা –২ লুকের অধীনে
প্যাকেজ নং ২
পর্যাপ্ত জটিলি বিস্তার ও
রাস্তা উন্নতির বিভাগের (পিচ রাস্তা)

রাস্তার আঁকা আকৃতি বিভাগের চিত্র

১. রাস্তার নির্মাণের জন্য মাত্রির কাজ : ১১৬২২.১৮ ঘন মি.
২. পাটের চোটের আঁক্রণ : ১৪৭৩৭.৯৭ বর্গ মি.
৩. বালি সহযোগে পুরোনো রাস্তায় ব্যাপক উপকরণ ও
মৌলার ভর ৫০ (৪৫+৫৫) মি.মি.
৪. রাস্তার নির্মাণের জন্য পাথরের প্রথম ভর : ২২২৬.০১ ঘন মি.
৫. রাস্তার নির্মাণের জন্য পাথরের দ্বিতীয় ভর : ১০৪৩.৯৪ ঘন মি.
৬. ২০ মি.মি. পুরো পিচ সংক্ষেপে পাথরের আঁক্রণ
(সামগ্রিক মাত্রি) : ১৪২০৩.৭০ বর্গ মি.