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Subject: Preparation of DPRs of bridges based on technical parameters - regarding

Dear Madam / Sir,

I am writing this letter to share a few incidences under PMGSY which have come to our notice in which the high level bridges being constructed, had either failed during construction or had to face severe challenges in execution. Most of these challenges were due to poorly framed DPRs which were prepared without considering the technical parameters of bridge designing.

2. In one case, it was observed that the hydraulic design of the bridge was not based on the actual flood data and the catchment area. The foundation of the bridge was also designed on the assumed geo-technical data without examining the actual geological strata. Probably, the bearings of the bridge were also not properly designed/adequately fastened during its execution. Due to one or combination of these reasons, the deck slab of the bridge was washed away in the recent rains, during its execution phase.

3. In another incident, it has come to our notice that due to the gross negligence in calculating the hydraulic data and also executing the bridge based on incorrect structural drawings which were developed without taking into account the ground conditions, has resulted into a level difference of more than 2m in the deck slabs approaching from the opposite ends.

4. You would agree that such incidences though rare, not only cast a very negative image on our engineering capabilities but also put a question mark on the quality of infrastructural projects being constructed under PMGSY. Such incidences would not have happened if the laid down protocol of mandatory joint inspection of the bridge site is carried out by the Chief/ Superintending Engineer and the STA is followed in letter & spirit. The Ministry of Rural development had taken a very serious view on these incidences causing infructuous expenditures. I would therefore, request you to kindly review the process of bridge DPR preparations in the light of the fact that the program in most of the States are translate into PMGSY -II & PMGSY-III and many of these projects would be requiring high level bridges.

With kind regards,

Yours sincerely,

Bb3m
26/9/18
(Uttam Kumar)

Chief Engineers of all SRRDAs