

Dated: 22/09/2021

Tour Report for visit to construction site under Shingkar, Bardo and Nangkor Gewogs

Tour Date: 16-19/09/2021

Team Composition

1. Dasho Dzongdag
2. Luv Kumar Chhetri (Chief Dzongkhag Engineer)
3. Yeshi Rinzin (Gewog Engineer)
4. Lhakpa Tshering (Monitoring and Coordination Officer)
5. Nidup (Gup for visit to Zamdong only)
6. Pema Tashi (Mangmi for visit to Zamdong only)

Purpose of the tour

1. To monitor the Small Development Projects (SDP) and Project Tied Assistance (PTA) activities.
2. To assess the Zamdong bailey bridge construction site (abutment area).

a. Site visit to Zamdong Bailey bridge construction site

The construction of the Zamdong bailey bridge connecting Radhi-Singkar under Singkar Gewog has an approved budget of Nu. 16.119 million under SDP-IV. The work was tendered out and a letter of intent has also been issued for a contract price of Nu. 14.56 million. However, Gewog Administration, Shingkar reported that the site for the bridge construction is not feasible as the site located for construction of abutment was affected by the massive landslides and is marshy. In order to confirm the site and to identify the new location, if required, the team visited for site assessment and observed as follows:

Observation at site

1. About 100m before the bridge site, huge landslides had occurred damaging the road. Besides, the area has continuous water flow from above.
2. The actual construction site is intact and the area for abutment has not been affected by the landslide.
3. The proposed bridge site is rocky and stable, suitable for the construction of bridge abutment.
4. The stream flowing by, irrigation water from the paddy field and school stormwater above is the main cause of the erosion and landslide.
5. It is observed that the landslide has been triggered due to improper drainage from above and is basically on the surface, which does not have a significant effect on the bridge abutment construction.
6. Besides, the team also explored different areas as an alternative to the proposed site. However, the alternative area does not have a proper base for the construction of abutment. Further, the cost of construction would be very huge considering the site location and mitigation to the safety of the bridge abutment.

Recommendations

1. The team recommended and decided to carry out the bridge construction in the already identified location;
2. The team recommended carrying out mitigation measures like diverting the stream, irrigation water and school stormwater from above to a different location;
3. The team also advised the Gewog engineer to be at the site for a week and further access the situation while clearing the sliding area and constructing the foundation.

Photos



Flooded and landslide area at Zamdong



The actual location of the Zamdong bailey bridge construction site

b. Site visit to Blacktopping of Bardo GC road

Observation and recommendation

1. Met with the contractor, site engineer and labourers and advised on occupational work health safety;
2. To avoid using mountain sand while constructing drains and walls;
3. It was observed that the PCC thickness for the drain work, width-wise, was not maintained uniformly
4. The instructed the Contractor's site Engineer and the labour to maintain uniform thickness throughout as per the standard and maintain quality work. 4. Always maintain the right ratio of cement, sand, aggregate and water;
5. Ensure curing at all times;
6. The labourers were demonstrated how to construct drain work and lay the PCC uniformly.
7. In absence of continuous supervision from the Dzongkhag Engineer, it is difficult to ascertain the quality and standard at the site and it is the responsibility of the contractor's site engineer and the labourers to maintain the quality and standard. Therefore, the firm was informed that a random sampling test will be conducted to ascertain the standard and quality of work.
8. The firm was informed that the whole work will be nullified if the sample fails and has to be re-done. Therefore, they should perform with work ethics and maintain the standard to avoid stringent action in future.

Photos



Site engineer showing an example as to how the foundation of the drain should be laid



With Labourers at the ongoing construction of drains at Bardo GC road blacktopping

c. Site visit to the construction of 32 bedded hostel at Buli Central School

Observations

1. Work quality especially plastering works are carried out well
2. Overall progress of the work is good

Recommendations

1. Provide quality sanitary wares
2. Embed waste pipe below the floor
3. Site area to be maintained well and clean
4. Identified the site for the construction of the septic tank
5. Electrical and plumbing items should be of good quality
6. All materials; especially wires, fittings and plumbing and sanitary fittings need to be approved by the Dzongkhag prior to their installation
7. The handrails on the stairs need not be till the stairs landing. The adjacent wall will act as a support on the staircase. Handrails to be provided only half up to the wall

Photos



Progress of 32 bedded hostel construction at Buli CS



Progress of 32 bedded hostel construction at Buli CS

d. Site visit to the construction of six-unit classroom at Bulis CS

Observations

1. Overall work progresses well
2. Site engineer at the site providing oversight and supervision

Recommendations

1. To convert the store located on the ground floor into the staff toilet
2. Putty finishing to be carried out with quality
3. Explore by providing a bit on the edges of Varanda to avoid water falling to the ground floor during washing.

4. Provision of water flowing outlet in the first floor while washing and cleaning the classrooms
5. Mosaic finishing to be carried out with quality
6. Provision for installation of Green Board and Powerpoint projector to be kept accordingly in all classrooms.

Photos



Progress for the construction of 6 unit classroom at Buli CS



Quality check for electrical wires

e. Construction of staff quarter at Buli Hospital

Observations

1. Overall progress is good
2. Plastering work looks good
3. Tiles work looks good

Recommendations

1. To change the ceiling exit location
2. Electrical and plumbing items should be of good quality and should get it approved by Dzongkhag prior to installation.
3. Ensure timely completion of the construction works.



Progress of Buli BHU staff quarter construction



Tiles work finishing at Buli BHU staff quarter construction

f. Visit to Old BHU building at Buli Hospital

Observations

1. The location of the bathroom shower is in an odd position. Hence, it should be realigned to avoid falling during showering.
2. Old BHU has been converted as Medical Store

3. The old BHU building is in good condition
4. Doctor and HA have requested timber shelves and bench for stacking Non-drugs items on the floor

Recommendations

1. Directed to look for a local carpenter to make shelves and bench and submit the estimates to the Dzongkhag
2. The position of the bathroom shower is to be realigned.

g. Visit to New Buli Hospital

Observations

1. Some rooms are stocked with Dental and X-Ray equipment
2. Hospital is well set up and provides normal health services
3. Internet and WIFI recently connected
4. No lab technician hampering the service delivery
5. No room for dental equipment installation
6. An only a single computer at the hospital

Recommendations

1. To move the dental and X-ray equipment to the Medical Store and use the rooms immediately
2. To explore computers from the Dzongkhag

Photos



Visit to delivery room



Visit to newly constructed Buli Hospital

(Chimi Dorji)

Dzongdag