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A report on Chautara prefabricated structure at Chautara District Hospital in Sindhupalchowk district

Introduction

America Nepal Medical foundation-Nepal (ANMF-N) signed a tripartite agreement with National Reconstruction Authority and Ministry of Health for the construction of a bigger prefabricated structure at Chautara on 18th of Baisakh, 2018. As the district hospital in Chautara was in dire need of the inpatient ward, ANMF-N started the construction as soon as the drawings were approved by Ministry of health. The prefabricated structure was completed very quickly but some of the problems, which needed to be rectified, were outlined during the engineering assessment done by MoH.

As the District Hospital at Chautara needed a proper inpatient ward for shifting their patients from the corrugated steel sheets, the inpatient healthcare services have been already started from the newly constructed structure. Furthermore, the problems that were observed have been already straightened out.

The lists of the problems along with its possible amendments done are as follows:

1. Installation of connector pipe is not proper in all toilets:

Proper connector pipes have been installed in all toilets



2. Apron drain is constructed only in the southern side of the building but the outlet of this drain is not seen. In the rest of the side apron were not constructed properly:

The Chautara district hospital lacks a proper water drainage system and they are not sure enough where to make the outlet for the proper water drainage system. As our contractor including us did not get any proper information regarding the outlet of the drain, we could not construct the effective outlet system. We have requested the DHO (Mrs. Poma) to allocate a proper space for the water drainage system.

The apron could not be constructed as per the design because of the space crunch and a leftover space just at the front of prefabricated structure for proper access to vehicles as well as the patients. The prefabricated structure is just besides another structure on other sides and the leftover space is covered by the roof of the corrugated steel sheets. An apron drain could be constructed but our contractor did not find the need of the apron drain there.



3. A step has been kept just at the main door that impedes the free access of wheel chair and trolley inside the building:

A ramp has been constructed at the main door.



4. Skirt roof just above the main door is not properly sealed:

The corrugated steel sheet has been added just above the main door to disallow the rain water from entering from the skirt roof and the main door has been sealed.



5. **Roof gutter are installed. The level and slope has to be checked to ensure the proper flow of water. No conveyor pipes were seen to take the water to the drain. The ends of roof gutter are left open to let the water drip down from the gutter:**

Conveyor pipes has been installed to take water from the gutter up to the drain



6. **Missing signage:**

Signage is yet to be installed as the constructed prefabricated structure is believed to be used for more purposes than expected earlier. We will be installing the signage as soon as we find out the desired function of each room. As DHO (Mrs. Poma) was thinking about adding partition for neonatal patients too, we will be putting the signage by coordinating with her.

7. Problems in toilet:

- *Toilet layout in female toilets has been changed. Some pipe inlets are seen open. This toilet consists of 3 wash basins for 1 person. The spray pipes (ablution tap) are broken:*

The layout of the toilet has been changed due to the space crunch and to make available space more effective. An additional prefabricated toilet has been constructed to supplement the deducted space as per the request from the DHO. Two urinals have been installed replacing the previously constructed basins. The spray pipes are mended.



- *Pipe connections and fixtures are not properly connected with dry wall. Most of them were found loose. These have to be fixed properly and firmly using backing structure:*

Pipe connections and fixtures have been properly connected.

- *Female toilets are lacking ventilations. Exhaust fan with proper ducting should be installed to vent this space:*

Exhaust fans with proper ducting have been installed for proper air flow



- *Floor level in (basin area) and out (level immediately out of the basin area) of the toilet are of the same level. This will cause the corridor floor wet:*

The problem has been checked and contractor has done the needful for the proper flow of water; disallowing the collection of the water which will make the floor wet.

- *Grab bars in disabled toilets are missing. Also, fixture is not installed as per approved design:*

Grab bars are already installed.



- *Floor taps are missing:*

The floor taps can be installed but we did not find the need of the floor taps there.

8. Metal works

- *Trusses are painted with only primer:*

Trusses have been painted with the aluminum paint.

- *Edge of the metal square pipes should be closed by welding metal caps:*

The edges of the metal square pipes have been welded by metal caps.



- ***The post holding the skirt roof is shifted from its original place due to space crunch:***

As the prefabricated structure has to be constructed a little bit backwards so as to allow proper access for vehicles as well as the patients, the skirt roof is shifted from its original space.

- ***Metal grill is missing in all windows:***

Metal grills can be constructed but we used our funds for the construction of the retaining wall which was more needed and quite costly too. That is why we were not able to construct the metal grill.

9. Damage and hole on the wall shall be repaired:

Damages and holes on the wall have been mended.

10. Cracks are seen on the joint on the board:

Cracks seen on the joint have been repaired.

Additional pictures:



An additional prefabricated toilet has been constructed to supplement the deducted space as per the request from the DHO



A small Chautara constructed to utilize the leftover space



A retaining wall and a net constructed besides the prefabricated structure