



Shelter Cluster Philippines  
ShelterCluster.org  
Coordinating Humanitarian Shelter



## VISIT TO THE THREE SITES WITH BUNK HOUSE WITH TACLOBAN CITY ON 20<sup>TH</sup> DEC TECHNICAL CONCERNS AND RECOMMENDATIONS

### Overall adherence to standards of design and construction

- All the DPWH commissioned bunkhouses being developed in Tacloban (and we understand in all locations) are non-compliant in many respects with internationally recognised standards and best practice as set down in Sphere standards (see details below). The designs and layouts shared by DSWD with CCCM and Shelter a few weeks ago and in use in other ongoing emergencies, are broadly speaking compliant with Sphere standards. It is unclear why such significant differences exist.
- It is not known whether DPWH have their own standards for site layout and bunk house design. If these exist it is important to establish if and how these differ from Sphere standards and whether DPWH's own standards have been adhered to in the construction of the bunkhouses.
- There appears to be a number of contractors working at different sites. Standards and facilities appeared to be somewhat different between different locations. It raises the question of whether contractors have different specifications for different sites, or if they are using the same specifications whether these are fully complied with in every location.

### Overall site management concerns

- Site management is required given the high density and need for full service provision.
- Humanitarian agencies recommend that it would not be appropriate to relocate affected households until the sites are 100% complete and construction complies with adequate building standards, and the present concerns are addressed.
- Identification and notification to beneficiaries of exit strategies and durable solutions from Bunk Houses.
- Well lit common areas.

### Overall protection concerns

- Avoid exposing people to further harm
- The safety of displaced people accommodated in transitional centres should be ensured along with access to water and sanitation and health, access to education and to livelihoods
- Security on the sites including inter alia fire safety, and protection from threat of further geohazards (flooding, landslides etc.)
- Privacy should be ensured;
- Site selection should aim to preserve networks that provide protection to vulnerable groups and group communities to maintain social protection mechanisms and networks and limit displacement-associated trauma.
- Careful selection of priority beneficiaries through participatory processes, and registration of beneficiaries to identify reasons for internal displacement to link them to durable solutions.
- Identifying the most vulnerable and their specific needs with attention to age, gender, disability.

### Overall water, sanitation and hygiene concerns

- Identification of entity to draft water usage contract and bill payment on the sites that have access to LMWD pipelines.



**Shelter Cluster Philippines**  
ShelterCluster.org  
Coordinating Humanitarian Shelter



- Sanitation: While all sites are in progress, it was not evident what drainage arrangements and filling material will be used to ensure environment free of stagnant water. This was not detailed on drawings shared.
- Hygiene: Strong mitigation measures should be taken to ensure safe and hygienic environmental conditions in location with landfill site.
- High environmental and personal hygiene levels should be maintained to overcome the health risks of living in overcrowded conditions.

**All sites**

- Bunk houses are very close together and site density is well under adequate building standards.
- The close proximity of many blocks to each other poses an extremely high fire risk as well as protection concerns (security and safety)
- Floor space area is very small and well below sphere indicator. While there is agreement that two rooms would be given to big families, doors would need to be cut between rooms.
- Ventilation is all but absent
- The distance from school facilities and other basics services as well in all cases needs consideration.
- 2 sites are gated and interaction and integration with the host community may be problematic.
- Inadequate consideration has been given to the need for communal spaces for meeting and recreational activities.

SITE
<p>1-NHA</p> <ul style="list-style-type: none"> <li>• 17 rows of bunkhouses (24 families each) = 408 families</li> <li>• 15.000m2 approx.</li> <li>• Originally meant for IDPs from Astrodome and Old road area, now targeted for Barangay 88 and Astrodome area (bgy 61)</li> </ul>
<p>2-MotoCross</p> <ul style="list-style-type: none"> <li>• 27 rows of bunkhouses=648 families</li> <li>• 14.600m2 approx.</li> <li>• Originally meant for IDPs from San Jose district, , now targeted for Barangay 88 and Astrodome area (bgy 61)</li> </ul>
<p>3-Abucay depot</p> <ul style="list-style-type: none"> <li>• 8 rows of bunkhouses=192 families</li> <li>• 4,500 M2 APPROX.</li> <li>• Originally meant for IDPs from Anibong district</li> </ul>
<p><b>Total present caseload: 1,224 Heads of Households in 8.3 to 8.64m2 per family units.</b></p>

**Abucay Depot Bunkhouses**

The site was assessed on November 18th by CCCM in coordination with an Engineer of Tacloban City and was discarded as not suitable given the flooding, un-even terrain, and presence of solid waste. Moreover, the site is extremely isolated from the rest of the community.

The following are the major concerns identified at the time of the visit and some recommendations to address them:

- Concern: It is adjacent to steep slopes which might face land slope stability problems, especially if there is deforestation, which is considered likely. Recommendation: Topographic study and geo hazard mapping to ensure no risks of landslide.
- Concern: Site was used for solid waste disposal previously and apparently landfill with waste of unknown origin that has been exposed after earthworks. This is a public health risks to the affected population by breeding of vectors and/or toxic leachate. Recommendation: Remove waste and/or control waste and dispose properly. Toxic leachate from landfill should be isolated from dwellings and properly treated.
- Concern: Bunk house density on this site is particularly higher than other locations. An additional 2 extra bunkhouses appear to have been fitted in. Recommendation: allocation of two habitations per family (back to back habitations) with internal communication to improve ventilation
- Concern: Proposed location of future latrines/washing areas. Latrines should be located in the lower area as waste water could be running under bunkhouses (especially in rainy season). Recommendation: Relocation of proposed latrines and provide an adequate protected drainage system (design drainage plan, addressing storm water).
- Concern: Overcrowded living conditions. Recommendation: High environmental and personal hygiene levels should be maintained to overcome the health risks of living in overcrowded conditions.

### **Motocross Bunkhouses**

- Concern: Flooded site and clay. The buildings are not raised as much as others. Some were only about 100mm above ground level. This may cause flooding problems. Recommendation: Drainage to adjacent lower lying empty lots on western and southern side of the site, gravel to prevent muddy conditions.
- Concern: High density site and no space for dispersion and social activities. Recommendation: not building the two bunkhouses that aren't yet built to allow for such space (original design was for 24 bunkhouses and current layout includes 27).
- Concern: Overcrowded living conditions. Recommendation: High environmental and personal hygiene levels should be maintained to overcome the health risks of living in overcrowded conditions

### **NHA Bunkhouses**

- Concern: Different design of bunkhouses from other sites and within the same site, which may lead to friction. Recommendation: social preparation and consultations required.
- Concern: High density site and no space for dispersion and social activities. Recommendation: Not building the bunkhouses that aren't yet built to allow for such space.



**Shelter Cluster Philippines**  
ShelterCluster.org  
Coordinating Humanitarian Shelter



- Concern: Overcrowded living conditions. Recommendation: High environmental and personal hygiene levels should be maintained to overcome the health risks of living in overcrowded conditions.