

# GCCA +

THE GLOBAL CLIMATE CHANGE ALLIANCE PLUS INITIATIVE



Funded by  
the European Union

## SCALING UP PACIFIC ADAPTATION (SUPA)

### Report: Community-based impact assessment in Ewa & Ijuw Districts, Nauru

27<sup>th</sup> – 31<sup>st</sup> October 2020



## Community-based impact assessment conducted for Colorbond tanks in Nauru

|   |   |
|---|---|
| <b>Date of assessment</b>                               | 27 <sup>th</sup> to 31 <sup>st</sup> October 2020   |
| <b>Purpose of assessment</b>                            | To assess the impacts of the Colorbond tanks on the beneficiary households.   |
| <b>Assessment carried out by</b>                        | <ul style="list-style-type: none"><li>• Ms. Erana Aliklik (National Coordinator)</li><li>• Mr. Abraham Aremwa (Research &amp; Community Officer)</li></ul>  |
| <b>Challenges faced while conducting the assessment</b> | <ul style="list-style-type: none"><li>• Absence of house numbering system made finding the beneficiaries difficult.</li><li>• Difficulty in securing interviewees as most of the interviews were conducted before lunch. Ideal times to conduct interviews for households are after lunch or on weekends.</li></ul> |
| <b>Districts covered</b>                                | Ewa & Ijuw  |
| <b>Number of household owners interviewed</b>           | 13  |
| <b>Average number of people per household</b>           | 14  |
| <b>Methodology</b>                                      | Ms. Aliklik and Mr. Aremwa visited each household and conducted interviews with the owners. The interview questions are attached as Annex 1.  |
| <b>Year tanks were installed</b>                        | 2018 and 2019   |
| <b>Primary water type stored in tank</b>                | <ul style="list-style-type: none"><li>• Rainwater – 7 tanks</li><li>• Desal water – 6 tanks</li></ul>   |



*A Colorbond tank that was installed in Nauru*

### Summary of responses:

- The tank capacity is 19,000 litres with 2 taps, a side ladder, a manhole and an overflow pipe. The tanks are cream in colour and there was a total of 38 beneficiary households in Nauru.

- Some of the tanks are in excellent working condition but some are no longer in use because the tank liners have been damaged. A tank liner is a material used inside water storage tanks to prevent the water from keeping contact with the tank's metal or concrete structure. Noted that Colorbond tank liners are not available on island.
- Colorbond tanks located closer to the coast have rusted screws so it is important that the tank type be based on where the tank will be installed.
- Majority of the interviewees recommended polyethylene tanks.
- Some interviewees who recommended polyethylene tanks also recommended either a roof be placed over the tank or to bury the tank.
- Only one household owner interviewed had cleaned the tank at least once since it had been installed.
- The manhole is only big enough for either a child or a very slim person to fit through.
- Water quality testing is required for water in the Colorbond tanks. Most interviewees testified that the water in their tank either tastes salty or is non-drinkable.
- Majority of the concrete bases for the tanks were not intact e.g. some had visible cracks.
- No maintenance training conducted for any of the 13 installations.
- Appropriate notice to be given to each household before installing new tanks. Tank installation for the Colorbond tanks was rushed so the location of the tank for some households was not well planned i.e., it is located too far from the house, on someone else's land, etc.

**Conclusion:**

Installing Colorbond tanks is not an option for the GCCA+ SUPA Project because maintenance will be difficult and repair works will be expensive particularly for the liners as these are not available on island. The importance of maintenance training for beneficiaries was also highlighted as this contributes to the longevity of the water storage measure. Household owners should be given ample time to determine the site for installation so that access will not be an issue once the water storage measure has been installed.

The community-based impact assessment of the Colorbond tanks was an excellent exercise to find out whether the Colorbond tank was beneficial to the recipients or not. It also provided an insight into the challenges associated with Colorbond tanks and will help inform the (1) decision on the most appropriate tank type for residents in Nauru; and (2) planning and implementation of future tank installations.

**Annex 1: Nauru Colorbond Tank Assessment 2020**

| <b>1. General questions</b>  |     |                  |           |
|--|-----|------------------|-----------|
| Date of assessment   |     | Name of assessor |           |
| Location of tank   |     |                  |           |
| Name of tank owner   |     |                  |           |
| Phone contact of tank owner  |     |                  |           |
| Which contractor installed the tank?   |     |                  |           |
| Name of tank manufacturer  |     |                  |           |
| Year tank was installed  |     |                  |           |
| How often do you order water deliveries?   |     |                  |           |
| How much water do you order in each delivery?  |     |                  |           |
| Number of people in household  |     |                  |           |
| Number of males  |     |                  |           |
| Number of females  |     |                  |           |
| Number of children/youth under 18 years  |     |                  |           |
| Number of people 60+ years   |     |                  |           |
| Number of persons with disabilities  |     |                  |           |
| <b>2. Present condition of the tank</b>  |     |                  |           |
| Are there any visible holes in the tank?   | Yes | No               | Comments: |
| Have the screws or reinforcements started to rust?   | Yes | No               | Comments: |
| Is the concrete base still intact i.e. no visible cracks?  | Yes | No               | Comments: |
| Is the tank overflow functioning properly?   | Yes | No               | Comments: |
| Is the faucet functioning properly?  | Yes | No               | Comments: |
| Are there any mosquitoes breeding in the tank?   | Yes | No               | Comments: |
| Please take photos of the tank specifically the base and the faucet. Please also take photos of any visible cracks, holes or rust on the tank, base or reinforcements. |     |                  |           |

| <b>3. Maintenance of the tank</b>   |  |
|---|--|
| How often do you clean the tank?  |  |
| Was training on maintenance provided when the tank was installed?   |  |
| Do you know how to maintain the tank?   |  |
| Is the manhole at the top of the tank big enough for a person to access and clean the inside of the tank? |  |
| How is the quality of the water from the tank?  |  |
| <b>4. Impact of having the Colorbond tank</b>   |  |
| Has the tank helped your household?   |  |
| If yes, please explain in what way.   |  |
| Are there any disadvantages associated with the tank?   |  |
| Have you seen any changes in your family's health since having the tank installed?                        |  |
| Are there any challenges when the tanker re-fills the tank?   |  |
| If you were to have another Colorbond tank installed, are there any changes you would recommend?          |  |
| Any other comments about the Colorbond tank   |  |