

 <p>United Nations Development Programme Pacific Office in Fiji</p>	<p>BACK TO OFFICE REPORT (BTOR) Yap Mission – Japan Project Submitted by: Subarna KC Date Submitted: 01st to 6th October 2019</p>
<p>1. Practice Area: 2. Service Line(s):</p>	
<p>3. Mission Period (incl. of travel \days): From: 01 October - 06 October 2019.</p>	
<p>4. Type of Mission</p> <p><input type="checkbox"/> Oversight/Monitoring <input type="checkbox"/> Event Related <input type="checkbox"/> Resource Person <input type="checkbox"/> Training/Knowledge sharing <input checked="" type="checkbox"/> Others (specify): Water project identification mission in Southern Yap</p>	<p>5. Clients</p> <ul style="list-style-type: none"> - Director, DECEM - Southern Yap Water Authority - Japan project counterparts
<p>6. Purpose of Mission:</p> <ul style="list-style-type: none"> - Identify the water projects in Sothern Yap so as to come up with the all the technical documents required to proceed ahead with the timely implementation of the identified projects. - Meeting with the relevant water stakeholders; - Field assessment of existing and proposed water projects; - Project concept note preparation, presentation and endorsement of the concept by the relevant stakeholders. 	<p>7. Documents, Materials, Resources from Mission</p> <ul style="list-style-type: none"> - Project Concept Note - Signed Minutes of Meetings indicating the concept endorsement
<p>8. Mission Member(s) (include consultants if any) Subarna KC, Andrew Yatilman, Paul Hawell</p>	<p>9. Cost (for RCC staff only)</p> <p>Air ticket = DSA and Terminals =</p>
<p>10. Brief Summary of the Mission:</p> <p>10A. Findings</p> <ul style="list-style-type: none"> - Out of 8 existing wells, we have found 2 wells still functional and used. One of the other wells is still operational but not used as it is contaminated with e-coli and suspected that the water could be brackish. These 3 wells require cleaning inside with well detergent. The well contaminated with e-coli needs to be fitted with a small chlorination unit and water quality needs to be tested for brackishness. The rest of 5 wells need to be re-drilled and fitted with new sets of casings, valves, filters and pumps. - There is a chlorination unit in SYWA office for the 5 wells but was never used from the beginning and is broken down at the moment and requires repairs. EPA and water beneficiaries are concerned about the quality of water as the chlorination unit is non-functional. There are minor cracks and leakages in the existing 100,000 gallon concrete tanks which could be fixed with the applications of crack sealing agents. - Hence the activities prioritize for the wells are: 1. Cleaning of 3 wells 2. Repairing the chlorination unit for 5 wells 3. Establishing small chlorination unit for the well contaminated with e-coli 4. Re-drilling at least 4 out of 5 non-functional wells. 5. Repairing of the cracks in the concrete water tank. 6. Constructing a small storage house for chlorine in SYWA premise 7. Provision of a container storage for spare materials for wells. - We discussed more about options for activity no. 4 Re-drilling at least 4 out of 5 non-functional wells which is the major component of the project. There is no existing drilling rig in the state and a company needs to be contracted to bring in a drill rig and drill 4-5 wells for us. We have found that the used drill rig in good condition could cost as less as \$ 100 k and the same company could be contracted to bring in the drill rig to the state, stay here for 2 weeks, drill 4-5 wells at the same time provide on the job training to the SYWA trainees on operation and maintenance of drill rig and leave the drill rig to SYWA. SYWA will provide the written commitment to UNDP that they will prepare operation and maintenance plan and budget allocation 	

for the drill rig for at least one year. SYWA will also assist other water utilities in the state for their drilling requirement making effective use of the existing drill rig. The drill rig company will quote the price for drilling 4-5 wells and providing training for a two weeks' time. The rest of the activities as mentioned above will require procurement of required material/ equipment from UNDP side and a few small local contracts to be implemented through SYWA.

- We visited the proposed water pond/ manmade reservoir site and it looks very promising. The pond is of approximate size of about 200 ft in diameter and 200 ft deep, water looks fairly clean and aquatic life (fish/ shrimps) in the pond are sign that it is not contaminated and it is fed by underground water source and surface runoff. The concrete tank is very near to the pond about 300 ft uphill and water could be pumped into the tank after passing through to the chlorination unit to be installed near to the tank. 3 inch pipe could be fitted with the submersible pump in the pond and water discharged to the chlorination unit and to the tank. This pond water could be useful during the dry season when the well yield is minimum and also as backup when wells are out of function and also to meet additional demand of water We would like EPA to assist us with the water quality testing for hardness, PH, Iron content etc. The sample will be collected during 21st- 26th October and sent to the laboratory in Guam while e-coli test could be carried out by EPA themselves.

10B. Results Achieved (concrete outputs)

- Project Concept Note
- Signed Minutes of Meetings indicating the concept endorsement by the stakeholders

10C. Expected Outcome(s) and Impact

- Project Concept Note will be further developed in to project proposal which will be submitted to the relevant stakeholders for their endorsement.

11. Key counterpart (s) and persons you met in each location and their contact details:

Monday 2 nd October and Friday 4 th October 2019	Stakeholders and Wrap up Meetings	Governor's Office, Office of Planning and Budget, SYAP, Public Works, Yap State EPA, COP, Gender Support Office
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12. Follow-up Action Matrix

Actions to be taken	By Whom	Expected Completion Date
Preparation of Minutes of Meeting	Subarna KC	7 October 2019
Preparation of detailed BoQs, scope of works, technical specifications, costing and tender document and implementation plan for water project in Southern Yap	Paul Hawell to be reviewed by Subarna KC	20 October 2019
Endorsement of the project document by the stakeholders	Stakeholders, to be facilitated by Subarna KC	31 October 2019

13. Distribution List (BTOR sent to):

- Yoko Ebisawa (09-October-2019)