Housing Authority

Scope of Works for Covata Subdivision Additional Works

Covata Subdivision, Labasa

1. STATEMENT:

The Covata Subdivision project requires additional works to extend the rising main, upgrade drainage systems, and construct earthen swales and driveways. These works are necessary to ensure proper drainage, sewage management, and infrastructure stability.

2. OBJECTIVES:

The following are objectives we want to achieve upon completing this task:

2.1. To extend the 100mm diameter uPVC rising main to connect to the existing manhole.
2.2. To upgrade the existing drainage systems to improve stormwater management.
2.3. To construct earthen swales and reinforced concrete driveways as per the design specifications.

3. SCOPE OF WORKS:

The **Covata Subdivision** project involves several critical additional works to ensure proper drainage, sewage management, and infrastructure stability. The scope of works includes the following:

3.1 Preliminary & General

- The contractor will be responsible for mobilizing to the site, which includes setting up temporary facilities, safety measures, and ensuring all necessary equipment and materials are available. Upon completion of the works, the contractor will demobilize from the site, ensuring the area is left clean and free of debris. A detailed as-built survey will also be conducted to document the final conditions of the works. (Refer to BOQ - ITEM 1.0)

3.2 Extension of Rising Main (Priority to be completed within 2-3 weeks)

- The project requires the extension of the existing **100mm diameter uPVC rising main** by approximately **65 meters** along the proposed alignment. This extension will involve crossing under an existing drain, requiring the installation of deflection bends, flange adaptors, gibault couplings, puddle flanges, and thrust blocks to ensure a secure and leak-proof connection. A reinforced pipe encasement will be constructed over the section crossing under the drain to provide additional protection. The affected channel section will be stabilized using **300mm diameter riprap** to prevent erosion and ensure long-term stability. (Refer to BOQ - ITEM 2.0)

3.3 Drain Upgrade Type 1

- The existing drainage system will be upgraded to improve stormwater management. This includes trimming and shaping the drain profile and laying a **250mm thick base** using **200mm diameter spalls** to provide a stable foundation. A **450mm invert drain** will be installed along the entire length of **380 meters**, ensuring proper water flow. A **2.5-meter wide, 100mm thick 20MPa concrete base** will be constructed to support the drain, reinforced with **665 base slab reinforcement** to enhance durability. Expansion joints will be provided at **3-meter intervals** to accommodate thermal expansion and contraction. The drain will be lined with **200mm spalls set in mortar** to prevent erosion, and outfall protection works will be carried out to ensure the discharge point is secure and stable. (Refer to BOQ - ITEM 3.0)

3.4 Drain Upgrade Type 2

- For sections requiring additional reinforcement, the drain profile will be trimmed and shaped, and a **300mm thick riprap lining** will be installed across the channel. This riprap will be grouted with **15MPa concrete** to provide a solid and durable surface, ensuring the drain can handle heavy stormwater flows without erosion or damage. (Refer to BOQ - ITEM 4.0)

3.5 Earthen Swale

- An **earthen swale** will be excavated to improve surface water drainage. The swale will be **1.5 meters wide and 0.6 meters deep**, extending for **226 meters**. This natural drainage solution will help manage stormwater runoff, reducing the risk of flooding and erosion in the area. (Refer to BOQ - ITEM 5.0)

3.6 Driveways

- The project includes the construction of reinforced concrete driveways to provide access to the residential subdivision. The driveways will be **150mm thick** and built according to the specifications provided in the design drawings. These driveways will ensure safe and durable access for residents and service vehicles. (Refer to BOQ - ITEM 6.0)

3.7 Safety and Compliance

- All works will be carried out in compliance with occupational health and safety regulations. The contractor will ensure that all workers use appropriate personal protective equipment (PPE) and that the site is secured with safety barriers and warning signs. Waste materials will be disposed of in accordance with environmental regulations, and the site will be left clean and safe upon completion.

4. WORK PROGRAM & PAYMENT SCHEDULE

Bidders are expected to provide their works program in the form of a Gantt Chart and provide a payment schedule. Bidders are also to take into consideration, HA's requirement to complete this project as soon as possible.

5. CONTRACT DETAILS

The Provisions of FIDIC Green Book shall govern the works to be carried out.

6. CONTENTS OF TENDER DOCUMENTS

The Tender Documents will comprise of the following:
Part A – Terms of Reference
Part B – Schedule of prices
Part C – Site Location

7. SUBMISSION OF TENDER

Tenders shall be uploaded to the Housing Authority Tender Link and marked:

"RFT NO. 07/25: COVATA SUBDIVISION ADDITIONAL WORKS no later than 2:00pm Fiji Time on Friday 14TH March, 2025.

Part B: Schedule of Price

COVATA SUBDIVISION ADDITIONAL WORKS BOQ		Unit	Qty	Rate	Cost
1.0	**Preliminary & General**				
1.1	Mobilise on Site	No	1		
1.2	Setting Out	No	1		
1.3	Allow for As-Built surevey of the works	No	1		
1.4	Demobilizing from site	No	1		
2.0	**Extension of Rising Main**				
2.1	Connect and extend 100dia uPVC Rising main along proposed alignment to cross below existing drain and connect to existing manhole as shown. Allow for bends, gibaults, spigot flange adaptors and thrust blocks)	m	65		
2.2	Build pipe encasement over section crossing under drain	m	3		
3.0	**Drain Upgrade Type 1**				
3.1	Trim and shape drain profile and lay a 250thk base using 200dia spalls. (Solid Measure)	cum	193.8		
3.2	supply install 450 Inv drain	m	380		
3.3	2.5m wide 20MPa Concrete base 100thk (3m - 450mm for Invert Drain)	m	380		
3.4	Provide 665 base slab reinforcement centrally placed.	m	380		
3.5	Allow for expansion joint at every 3m	m	380		
3.6	Rocklining 200mm spalls with mortar	sqm	1520		
3.7	Allow for outfall protection works	LS	1		
4.0	**Drain Upgrade Type 2**				

4.1	Trim and shape drain profile and lay 300thk riprap lining across channel upto 2.0m (Solid Measure)	cum	798		
4.2	Allow for grouting of riprap with 15MPa concrete	sqm	2660		
5.0	**Earthen Swale**				
5.1	Excavate 1.5m wide by 0.6m deep earthen swale	m	226		
6.0	**Driveways**				
6.1	Build 150Thk Reinforced concrete driveway (3.5m x2.1m) as per sht 37	No.	4		
6.2	Demolish & remove existing footpath and kerb to Commercial lot. Construct 150Thk Reinforced concrete driveway over drain (6m x 2.1m)	No.	1		

Part C: Site Location