

SCOPE OF WORKS

Remedial Works at Bassin Requin Pig Waste Treatment Plant, Bassin Requin

The works consist of the supply of all necessary materials, plants, equipment and workmanship for remedial works at Bassin Requin Pig Waste Treatment Plant, Bassin Requin.

The whole of the works shall be carried out in the strict accordance with the Scope of Works, Specifications, conditions of contract and drawings No. PIG-01 & PIG-02.

Note:

1. All dimensions are indicative and approximate in all design drawings. The tenderer must take his own measurements on site prior to quoting.

2. The tenderer is advised to visit and inspect the site for which he is tendering prior to submission of his offer as no claims will be allowed on:

- i. The grounds of ignorance of the conditions under which the works will be executed.**
- ii. Any discrepancies in dimensions, etc.**

The works consist of:

- (i) Cleaning and Rehabilitation of wastewater pipes
- (ii) Cleaning and Rehabilitation of manholes
- (iii) Cleaning and Rehabilitation of digesters
- (iv) Cleaning and Rehabilitation of sedimentation tanks
- (v) Cleaning and Rehabilitation of shallow basins
- (vi) Cleaning and Rehabilitation of leaching fields
- (vii) Replacement of manhole covers
- (viii) Resurfacing of Road of Length 450m
- (ix) Works on boundary fencing

ITEM	DESCRIPTION
	<p>Remedial Works at Bassin Requin Pig Waste Treatment Plant, Bassin Requin</p> <p>The works consist of the Remedial Works at Bassin Requin Pig Waste Treatment Plant at Bassin Requin as per Engineer's Drawings (No. DRG No. PIG-01 & PIG-02), instructions and specifications and inclusive of the following.</p>
1.0	Preliminaries & General Costs
	<p>The Contractor is to allow for costs related to Preliminaries and General Conditions of Contract requirements including the following but not limited to: setting out of the works, Site Management, Site Office, Overheads, tools, plants, store, stacking and storage of materials, insurances, bonds, watchmen, light, electricity, protection, security of workmen, works on site, temporary hoardings, etc.</p>
3.0	Cleaning and Rehabilitation of manholes
	<p>All accumulated waste in the manholes (30 units) shall be pumped out and cart away by the contractor.</p> <p>All manholes shall be cleaned and all waste disposed away to the satisfaction of the Engineer/Client.</p>
2.0	Cleaning and Rehabilitation of wastewater pipes
	<p>Jetting Operation should be performed in all wastewater pipes (uPVC 200mm diameter) of an approximate length of 800m to flush any accumulated waste. The waste should be properly pumped out of the system and cart away by the contractor.</p> <p>The preliminary layout of the wastewater system is as per drawing No PIG-02. The contractor shall however carry out a detailed investigation of the waste reticulation system while working on site and ensure the complete system is cleaned and is in full operation after the works have been completed to the satisfaction of the Ministry.</p> <p>In case of blockage and damaged sewer line, the contractor shall repair/replace the blocked/damaged sewer line. This will include excavation, provision of plugging of line, supply of necessary fittings and stretch of pipe for replacement of pipe of same diameter, backfilling and reinstatement of asphalt to original state, if necessary.</p>
4.0	Cleaning and Rehabilitation of digestors
	<p>The four (4 units) digestors, each of approximate capacity 45m³, shall be emptied by pumping out all accumulated waste.</p> <p>All digestors shall be cleaned and all waste shall be cart away by the contractor.</p>

	The digestors shall be inspected for any cracks and repair works to ensure good state of the digestors shall be undertaken by the contractor. Any damaged piping/fitting shall be made good/replaced by the contractor to ensure good running of the digestors.
5.0	Cleaning and Rehabilitation of sedimentation tanks
	The four (4 units) sedimentation tanks, each capacity 18m ³ , shall be emptied by pumping out all accumulated waste, cleaned and all waste cart away by the contractor. The sedimentation tanks shall be inspected for any cracks and repair works to ensure good state of the sedimentation tanks shall be undertaken by the contractor. Any damaged piping/fitting shall be made good/replaced by the contractor to ensure good running of the tanks.
6.0	Cleaning and Rehabilitation of shallow basins
	The four (4 units) shallow basins, each of approximate capacity 30m ³ , shall be emptied by pumping out all accumulated waste, cleaned and all waste cart away by the contractor. The shallow basins shall be inspected for any cracks and repair works to ensure good state of the shallow basins shall be undertaken by the contractor. Any damaged piping/fitting shall be made good/replaced by the contractor to ensure good running of the basins.
7.0	Cleaning and Rehabilitation of leaching fields
	Leaching fields for all four waste treatment plants (approximately 2500m ²) shall be cleaned and rehabilitated. The work consist of pumping excess sludge and excavation of the leaching fields to a minimum depth of 3m. Backfilling of the excavated leaching field shall be done with 3 equal layers; hardcore filling (300-350mm) followed by basaltic spalls 150-200mm and to top with aggregates 18-25mm.
8.0	Replacement of manhole covers
	The supply and fixing of thirty (30 units) cast iron manhole covers, each 600mm x 450mm.
9.0	Resurfacing of Road of Length 450m
	1. Backfilling & Compaction of potholes All identified potholes shall be backfilled with crusher run and properly compacted. 2. Application of tack coat Tack coat shall be applied uniformly on all surfaces at the rate of 0.6 kg/m.

	<p>3. Application of Asphaltic Concrete</p> <p>The supply, laying and levelling of wearing course consisting of 40mm asphaltic concrete 0/10 (5.5% bitumen content) over the tack coated surfaces.</p>
10.0	Works on boundary fencing
	<p>a) The interior side of the fencing, to a length of 600m, shall be cleared of all bushes, plants, creepers, shrubs, weeds and any other obstruction.</p> <p>b) 20m stretch of fencing shall be removed and replaced with new one complete with galvanised posts, fixed in concrete bases, straining wire, fencing, and razor blade as the existing fencing and as per the instructions of the Engineer.</p> <p>c) A 100x100mm concrete kerb of grade 25 shall be casted as the foot of the fencing over a length of 600m, with reinforcement 2Y8 and stirrups Y6 at 150mm over the whole length as instructed by the Engineer on site.</p>
11.0	Site Clearing
	<p>The Contractor should cater for the clearing of site on completion of works, and carting away of material debris arising out of the works.</p>