**QUALITY CONTROL PLAN**

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| **PR/ #: PR BIU 1418 & PR BIU 1422** | **Tender #:**  **NIG/BIU/TEN11** |
| **PR Description:**  **Construction of Toilets/ Latrines (Sanitary Facilities in Biu and Shani LGAs, Borno State.** | |

# Essential Specifications and Testing Requirements

**MATERIALS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ***S/N*** | ***DESCRIPTION*** | ***Margin of Error*** | ***Perimeter*** | ***Testing Method*** | ***Frequency*** | ***Who to perform test*** | ***Critical items & % of Random samples*** |
| **1** | Sand for plastering (80% Silt, 20% sand proportion) clear from coarse aggregate and vegetation and roots | +10% sand, -10% Silt | Approved source, Sand & silt proportion and quantity to be measured per trip | Visual | Per week / Prior to Each Supply / Redemption | WASH Engineer | Source and type of sand- one sack |
| **2** | Crushed Aggregate #67 size from 3/4" grade granite for fill, road and slab base and crushed aggregate #57-size of about 3/4". For concrete, asphalt mix, drive way. | +/- 5% in size | Approved source, Size and proportion of dust | Visual | Per week / Prior to Each Supply / Redemption | WASH Engineer | Type and source – one sack |
| **3** | Sharp sand for mortar (80% Sand, 30% silt proportion) clear from vegetation and roots. Maximum diameter 6mm after sieve | +10% Silt, -10% Sand | Approved source, Sand & silt proportion and quantity to be measured per trip | Visual | Per week / Prior to Each Supply / Redemption | WASH Engineer | Source and type of sand- one sack |
| **4** | Ordinary Portland cement 50KG (Ashaka, BUA or Dangote) packed in poly bag. Color should be grey with a light greenish shade and uniform. | 0% | Type of cement, weight per sack and expiry date. The test will also be carried out on site: Rubbing test to ensure it is free from sand, Hand insertion test to ensure no hydration reaction is taking place in the back, Float test to ensure it should not sink in water and smell test. Presence of lumps would be rejected. | Visual / weighing | Per week / Prior to Each Supply / Redemption | WASH Engineer | Type and weight- 1 bag |
| **5** | 50 X 75mm Rafters Well-seasoned hardwood (Obeche). Should be free from serious defects such as dead knocks, flaws, shakes etc. | +/- 5mm in thickness and +/-100mm in length | Size, straightness, and type of the wood. Decayed profiles would be rejected | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6 pcs |
| **6** | 50 X 50mm Purlins well-seasoned hardwood (Oreo). Should be free from serious defects such as dead knocks, flaws, shakes etc. | +/- 5mm in thickness and +/-100mm in length | Size, straightness, and type of the wood. Decayed profiles would be rejected | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6 Pcs |
|  | 50 X 100mm wall plate well-seasoned hardwood (Oreo). Should be free from serious defects such as dead knocks, flaws, shakes etc. | +/- 5mm in thickness and +/-100mm in length | Size, straightness, and type of the wood. Decayed profiles would be rejected | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6 Pcs |
|  | 225 x 25mm wrought fascia covered with flat pan well-seasoned hardwood (Oreo). Should be free from serious defects such as dead knocks, flaws, shakes etc. | +/- 5mm in thickness and +/-100mm in length | Size, straightness, and type of the wood. Decayed profiles would be rejected | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6 Pcs |
| **8** | Anti-termite Solignum 5 Liter packing (Solignum) | 0% in type and quantity | Type, quantity | Visual | Per week / Prior to Each Supply / Redemption | WASH Engineer | One gallon- litres and type |
| **9** | Used engine oil | 0% in type and quantity | Quantity and quality. Missed with water will be rejected. | Visual | Per week / Prior to Each Supply / Redemption | WASH Engineer | One gallon- litres and type |
| **10** | 610mm diameter ribbed bar 12000mm length high yield steel - grade 415 – 460. | +/- 5mm in thickness and +/-100mm in length | Material type, thickness and dia. Free from cracks, surface should be maximum rust free, diameter should be equal, | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6-pcs |
| **11** | 6mm diameter used for links and stirrup 12000mm length mild steel (Quarter rod) with grade S275 for slab handle | +/- 5mm in thickness and +/-100mm in length | Material type, thickness and dia. Free from cracks, surface should be maximum rust free, diameter should be equal, if of these found should be rejected. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6-pcs |
| **12** | 0.45mm thick long span aluminium roofing sheet | 0% in thickness and length | Material, size and type. Free from corrosion and other defects. | Visual+ gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | One sheet- size and material |
| **13** | Common wire nails 4" Soft Steel nails for wood | +/-1/8” | Type, material and size. Free from corrosion and other defects. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | One Kilo |
| **14** | Common wire nails 3" Soft Steel nails for wood | +/-1/8” | Type, material and size. Free from corrosion and other defects. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | One Kilo |
| **15** | Common wire nails 2" Soft Steel nails for locks and hinges | +/-1/8” | Type, material and size. Free from corrosion and other defects. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | One Kilo |
| **16** | Common wire nails 11/2" Soft Steel nails for wooden batten and netting | +/-1/8” | Type, material and size. Free from corrosion and other defects. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | One Kilo |
| **17** | Metal strap *(Langa Langa)* Hoop Iron straps 1.5 m length x 15mm (0.25mm thickness) width made of soft steel, and free from color | 0% in length | Material, size and type. Free from corrosion and other defects. | Visual+ gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6 piece- size and material |
| **18** | Blockwork 150mm sandcrete block laid in cement and sand (1:4) to wall plate including urinal partitions (6") -Compressive strength 2.59N/mm2 at 7 days to 3.45N/mm2 at 28 days | +/-5mm in length and width | Compressive Strength and size. Should not break when dropped flat on hard ground from height of about 2.5m, should have uniform shape, when scratch with fingernail, no impression should be left on block surface, it should have uniform shape and size, free from crack and surface flaws, and edges should be sharp. Maximum of two compartment | Visual and thumb role | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6 pcs |
| **19** | Steel binding wire 1.5mm thick | +/-0.02mm, 0% for weight | Weight, type of material and thickness. Free from corrosion and other defects, should be soft and easy to bend. | Visual / weighing | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6-pcs |
|  | 750mm x 1900mm metal door made with 2mm thick steel plate framed with 25mm x 50mm steel pipes painted and installed complete with steel frames, padlocks, and keys as in indicated in the drawings | +/- 2/8” | Type, material, and size. Free from corrosion | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |
|  | Single 900mm x 1600mm see through door made with 25mm x 50mm (2mm gauge) steel pipes and grilled with 25mm square steel pipes as in the drawings on the entrance to the facility painted and installed complete with steel frames, padlocks and keys. | +/- 2/8” | Type, material, and size. Free from corrosion | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |
| **20** | Metal burglary door and other metal work (3 coats anti-rust finished with approved color as directed by Engine | +/- 1/8” in size | Size and type of material. Free from corrosion | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6-pcs |
| **21** | 3'' Roofing cap steel nails with accessories | +/-1/8” | Type, material and size. Free from corrosion | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6-pcs |
| **22** | 3"4"' Roofing cap steel nails | +/-1/8” | Type, material and size. Free from corrosion | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6-pcs |
| **23** | 25mm GI pipe as hand support rails cast monolithically with the floors slab, braced, and supported as indicated the drawing. | +/- 5mm in thickness and +/-100mm in length | Material type, thickness, and dia. Free from cracks, surface should be maximum rust free, diameter should be equal, if of these found should be rejected. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 6-pcs |
| **24** | 1:5 sloping ramp on the main entrance to the facility and on the entrance to the physically challenged compartment (4No) | +/- 2/8” | Type of materials used and size. Other than this should be demolished | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | N/A |
| **25** | WC for physically challenged as in the drawing | +/- 5mm in thickness and +/-100mm in length | Material type Free from cracks, surface should be smooth if of these found should be rejected. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |
| **26** | purpose made concrete drain finished with vitrified tiles and partitioned at intervals as urinal, running from under the washing to the soak pit as indicated in the drawing | +/- 5mm in thickness and +/-100mm in length | Material type Free from cracks, surface should be smooth if of these found should be rejected. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |
| **27** | wash hand basin embedded in block work and 1 water tap in front as indicated in the drawing | +/- 5mm in thickness and +/-100mm in length | Material type Free from cracks, surface should be smooth if of these found should be rejected. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |
| **28** | 2400mm long 100mm diameter PVC vent pipe complete with all accessories on all inspection chambers | +/- 5mm in thickness and +/-100mm in length | Material type, thickness and dia. Free from cracks, diameter should be equal, | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |
| **29** | 6” diameter vent pipe cover | +/- 5mm in thickness and +/-100mm in length | Material type, thickness and dia. Free from cracks, diameter should be equal, | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |
| **30** | squat pan completely fixed and connected to drain | +/- 5mm in thickness and +/-100mm in length | Material type Free from cracks, surface should be smooth if of these found should be rejected. | Visual & gauging | Per week / Prior to Each Supply / Redemption | WASH Engineer | 1-pcs |

# Essential Specifications and Testing Requirements

Below is the specification of standards that we will put in place as part of the QC:

1. Tender Evaluations: Evaluations will be based on the examination of the documentary evidence of the bidders’ qualifications submitted by the tenderer to evaluate the firm’s experience, performance, and quality of services. It will be based upon on the following:
   1. Reference letters from current and past clients for similar services rendered.
   2. Client Reference from current clients.
2. Pre-contracting: Reference checks of the final/selected bidder to ascertain the authenticity of information provided and ensure quality delivery of services. An affirmative determination will be a prerequisite for award of the contract to the tenderer, while a negative determination will result in rejection of the bidder’s tender, in which event the selection team will proceed to the next lowest evaluated tender to make a similar determination of that bidder’s capabilities to perform satisfactorily.
3. Award Criteria: The Tender Selection Committee shall award the contract to the successful bidder whose tender has been determined to be substantially responsive and provided further that the tenderer is determined to be qualified to perform the contract satisfactorily. To qualify for the contract award, the bidder shall have the following:
4. Necessary qualifications, capability experience, services, and facilities to provide the services being procured.
5. Legal capacity to enter into a contract for procurement.
6. Shall not be insolvent, in receivership, bankrupt or in the process of being wound up and is not the subject of legal proceedings relating to the foregoing

# Contract Testing Requirements

1. Works Agreement (WA): This will have developed based on agreed upon timelines to govern the delivery of services in order to manage expectations.
2. Dedicated team to manage the scheme: STW will appoint a quality control team that will be responsible for discussing and evaluating the expectations on each deliverable for further discussion with the service provider for feedback and action.
3. Supplier scorecard: this will be use to rate performance and quality of service of the vendor/service provider before the renewal of the agreement.

# Non-Conformance

The QC Team will provide collective feedback on the requirements and in case of non-conformance to agreed quality standards, **clause 3 – Termination** of the service contract will enforce.