**TECHNICAL SPECIFICATIONS FOR THE EQUIPING OF THE BOREHOLE AND CONSTRUCTION OF THE WATER HOLDING TANKS STAND AT THE MASIA COMMUNITY CENTRE**

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| **#** | **Item/s** | **Technical Specifications**  |
| 1 | Automation & electrical wiring | * Electrical cable from the Solar grid to the borehole - 16mm 3 core x 270m (pump protection relay motor scope 2.2 kw
* Orange electrical Box 500 x 500 mm and
* Issuance of the Certificate of Compliance (COC)
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| 2 | Borehole pump/motor & control box | * 2.2 kW
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| 3 | Miscellaneous/material (piping) | * Supply of water from the borehole to the 40kl elevated steel tank and to the nursery holding tanks
* HDP pipe - 32mm x 200m class 10
* Rope - SKI/Nylon 10mmx 200m
* Base Plate - 3 x 32mm
* Compression male adaptors: 2 x 32mm galvanized elbow male and female - 4 core 200m x 6mm
* 2 x Cable joint
* 2 x Packets of cable ties
* 2x Insulation tapes
* 4 x Thread tapes
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| 4 | Borehole cage dimension  | * 1,5 m (L) x 1,5 m (W) x 1,5 m (H)
* Lockable steel-lid of 4 mm

 **See attached pictures for specification**  |
| 5 | 40kl elevated steel tank  | * Repair tank leaks
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| 6 | Constructing reinforced boxed concrete for water holding tanks (should be able to hold 5 x 10000L) |

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| * Tank stand size: 13M x 3.5M x 1M
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| * Tank stand reinforced concrete Footing: 0,5M X 0,5 M
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| * Bricks to use: Clay bricks
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| * Stand filling: Gravel should be used for compaction purposes in stand compartments
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| * Stand floor reinforcements: REF 100 - 6 M x 2.4 M: 200 x 200 x 4 mm Welded Mesh
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| * Cement type: PPC cement: 42.5 N
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| * Crush runner: 7 mm - 8mm for reinforced stand floor
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| * Concrete Bonding liquid: Bonding liquid TAL
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| * Tank stand wall: Double cavity wall
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| * Brick force: NHBRC BRICKFORCE 2.8MM - double brick wall

**See attached pictures for specification**  |   |   |
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