**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) |
| 2 | Borehole pump/motor & control box | * 2.2 kW |
| 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 |
| 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 |
| 6 | Constructing reinforced boxed concrete for water holding tanks (should be able to hold 5 x 10000L) | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | * Tank stand size: 13M x 3.5M x 1M | | | | | | | | | | | * Tank stand reinforced concrete Footing: 0,5M X 0,5 M | | | | | | | | |  | | * Bricks to use: Clay bricks | | | | | | | | |  | | * Stand filling: Gravel should be used for compaction purposes in stand compartments | | | | | | | | | | | * Stand floor reinforcements: REF 100 - 6 M x 2.4 M: 200 x 200 x 4 mm Welded Mesh | | | | | | | | | | | * Cement type: PPC cement: 42.5 N | | | | | | | | |  | | * Crush runner: 7 mm - 8mm for reinforced stand floor | | | | | | |  |  |  | | * Concrete Bonding liquid: Bonding liquid TAL | | | | | | |  |  |  | | * Tank stand wall: Double cavity wall | | | | |  |  |  |  |  | | * Brick force: NHBRC BRICKFORCE 2.8MM - double brick wall   **See attached pictures for specification** | | | | | | | |  |  | |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |