

BILL OF QUANTITY HORN GARDENS BOREHOLE DRILLING & DEVELOPMENT IN ARAYAMBO, SOMALILAND		BILL NO. 01		PAGE NO. 1	
ITEM NO:1	DESCRIPTION	QTY	UNIT	RATE (USD)	TOTAL (USD)
1	SITE WORKS				
1.1	Allow for the cost of mobilization of all equipment, consumables for the entire borehole works and drilling team to the site and demobilization from the site	1	Item		
1.2	Site clearance, levelling and other associated costs	1	Item		
1.3	Setting up and dismantling of the rig at the drilling site	1	Item		
1.4	Other related tasks such as water for drilling and camp use, maintenace of storage tanks, water injection systems and usage of drilling foam	1	Item		
ITEM NO:2	TOTAL FOR SITE WORKS				
2	BOREHOLE DRILLING				
	Drilling to a minimum of 6" and to an acceptable minimum depth as per hydro geological report:				

2.1	Drilling with min. 8" bit from 0-10m depth	1	Item		
2.2	Drilling with min. 6" bit from 10m-50m depth	40	m		
2.3	Drilling with min. 6" bit from 50m-80m depth	30	m		
2.4	Drilling with min. 6" bit from 80m-180m depth	100	m		
2.5	Soil sampling and record keeping as detailed in specification	1	Item		
ITEM NO: 3	Total carried forward to summary page				
ITEM NO:3	DESCRIPTION	QTY	UNIT		
3	BOREHOLE INSTALLATION				
	Installation of PVC casings were applicable except for areas where screen casings will be installed				
3.1	Supply and installation of PVC casing 8.5" (external Diameter). Minimum thickness 3mm. Upto 10m depth	10	m		
3.2	Supply and installation of PVC casing (plain or slotted) 6" minimum diameter. Minumum thickness 3mm upto 170m depth	170	m		
3.3	Supply and install gravel pack in the borehole as detailed in the specification	7	Ton		

3.4	Allow to the cost of:-				
	(a) Reaming and boring	180	m		
	(b) Insert, remove temporary casings etc	24	Hr		
	(c) Insert 8" of temporary casing permanently	30	m		
	(d) Setting time	1	Sum		
	(e) Bentonite seal	1	Sum		
ITEM NO:4	Total carried forward to summary page				
4	BOREHOLE DEVELOPMENT				
4.1	Allow for borehole development work (surging by air of the completed well until the water is clean (Approx. 3hrs)	3	Hr		
4.2	Pump testing for the well of the well using a submersible pump for at least 24- 36 hours to estimate draw down and the yield	24	Hr		
4.3	Provide all materials and construct concrete top slab with well cap and engraving serial number	1	Sum		
4.4	Standby charges for reasons beyond contractor's control excluding force majeure conditions	Item	Hr		
4.5	Borehole Completion Data and Water Chemical Analysis Report	1	Sum		
4.6	Construction of raised concrete plinth around well head	1	Item		
	Total carried forward to summary page				

	Summary Page				
1	Site works				
2	Borehole drilling				
3	Borehole installation				
4	Borehole development				
	Total carried forward to Grand Summary page				