

BILL OF QUANTITIES FOR DRILLING ONE(1) BOREHOLE_ANNEX C

RFP/HCR/SOG/SUP/2022/001

Project: Drilling of Borehole at UNHCR Dimma Field Unit Compound

Estimated Well Depth (m):	150m	Northing:	
Region:	Gambella	Easting:	
Woreda:	Dimma	Elevation:	
Zone:	Anyua	UTM Zone:	

No.	Description	Unit	Quantity	Unit Rate (ETB)	Amount (ETB)
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HYDRO-GEOLOGICAL AND GEOPHYSICAL SURVEY

1. General

1,1	Mobilisation of man power, equipment and materials	lps	1		
1,2	Demobilisation	lps	1		
1,3	Hydro-geological and geophysical survey and reporting	lps	1		
1,4	Drilling supervision and reporting	lps	1		
Sub Total:					

BOREHOLE DRILLING

1. General

1,1	Mobilisation of man power, drilling rig, construction equipment and materials	lps	1		
1,2	Demobilisation	lps	1		
1,3	Site clearing, setting up and clearing before and after construction	lps	1		
Sub Total:					

2. Drilling

2,1	Excavation of mud pits to appropriate dimensions if required	m3	12		
2,2	Drilling 16" mininum diameter hole in soft formation (DTH hammer/ Mud Rotary), and installation of any temporary 'conductor' casing	m	10		
2.3 (i)	Drilling minimum 12" hole in soft formation (DTH hammer/ Mud Rotary)	m	30		
2.3 (ii)	Drilling minimum 12" hole in medium formation, (DTH hammer/ Mud Rotary)	m	80		
2.3 (iii)	Drilling mininum 12" hole in hard formation, (DTH hammer/ Mud rotary)	m	30		
Sub Total:					

3. Logging

3,1	Drill logging including lithology and drilling rate	lps	1		
3,2	Down-the-hole electrical resistivity and spontaneous potential logging	lps	1		
Sub Total:					

4. Supply and Installation of Steel/PVC Casing

4,2	Supply and installation of permanant steel surface casing, 14"	m	10		
4,3	Supply and installation of 8" Steel Blind casing	m	90		
4,4	Supply and installation of 8" Steel Screen casing	m	60		
4,5	Supply and installation of 3/4" observation pipe	m	120		
Sub Total:					

5. Well Construction

5,1	Supply and pack selected gravel	m3	12		
5,2	Well development by "air lift" pumping (surging and blowing of compressed air)	hrs	10		
5,3	Grouting to depth of 6m using appropriate grouting mix	lps	1		
5,4	Well disinfection with chlorine	lps	1		
5,5	Alignment test	lps	1		

5,6	Well head construction, including foundation plinth, raised concrete pillar and welded steel cover	lps	1		
Sub Total:					
6. Pumping Test					
6,1	Dimensioning Test - 24hrs prior to Step Test	hrs	2		
6,2	Step Test - 4 steps of 2 hrs each	hrs	8		
6,3	Constant Rate Test - 24 hrs after Step Test.	hrs	24		
6,4	Recovery Test - until 100% recovery	hrs	8		
6,5	Pumping Test report	lps	1		
Sub Total:					-
7. Chemical Water Quality Test					
7,1	Preparation, transport and testing of samples with written report	lps	1		
Sub Total:					
8. Well Completion Report					
8,1	Submit well completion report before payment including full lithological log, details of well construction, results and interpretation of all pumping tests and water quality analysis	lps	1		
Sub Total:					-
Total for 1 Borehole:					
VAT 15%:					
Grand Total :					

Name of Comp Representative: _____
Coampy Name: _____
Project Completion time: _____
Signature: _____
Date: _____
Stamap: _____

Note:

1. This financial document will be sent separately by the email indicated on the RFP document
2. All price need to be neat and clear wiht ETB Currency only