

Project Name : Integrated food Security and Livelihood Support for Communities in Gedaref and Kassala State

Funded by: EU

Implemented by: ZOA International, Sudan Office

Location Gedaref State, Gala'a Al Nahal Locality

Position: Samsam Guja Hafir, Samsam Guja Village

Coordinates: 13.781874°N 35.0539114°E

Activity name: Rehabilitation of Samsam Guja Hafir

Activity Category: Water for Humans & Livestock

NO	DESCRIPTION	UNIT	Qty.	Unit rate in (_____)	Amount in (_____)
1	Preparatory Activities				
1.1	This item extends to include , preparing the site for the works , removal of bushes from feeding canal , prepare the broken area of embankment to receive the proposed new layers . safe remove of the fence from the damage area about 25 meter lenght , and properly re-erect it back .	Job	1		-
2	Earth work				
2.1	Provide a suitable soil material from the site area according to the site engineer instructions , spread and compact , in layers , layer thick is not more than 25 cm . to maintain the damaged embankment	M3	1,200		-
2.2	Manually,Removal of sediments from in let system and wells .	Job	1		-
2.3	Provide materials (cement , sand , stone, gravel, water) and build a circular well for Haffir in-let , outer diameter 180 cm , H 60 cm , from Haffir bed level , foundation RC 30 cm thick , using steel bars Ø12 mm 20 cm c/c BW .Conc mix (1 : 2 : 4) , well cured .	Job	1		-
2.4	Provide 12'' 10 bar upvc pipes, to replace Haffir inlet pipe from the drop well to the newly constructed energy dissipater well	MI	12		-
2.5	Excavation of stilling pool for the dims of 40m x 30 m , 150 cm deep And the feeding canal	M3	2,500		-
3	Grill Cover				
3.1	Provide material and make rounded Grill covers as follow : <input checked="" type="checkbox"/> Rounded frame from angle 2'' , 3 mm, meshed by steel bars 12 mm, steel spaced 25 cm c/c BW, <input checked="" type="checkbox"/> Well fixed to the inlet well . Covers to be coated by anti – corrosion paints , and well painted as per ZOA standards.	Job	1		-
4	End Protection Walls				

4.1	Provide material (cement, sand ,stone , water)) and make embankment mortar pitching end protection as follows striped footed (L15 m , W0.5 m , 0.7 m depth) . Mortar Thick 0.4 Ms, mortar mix ((1 : 6)) , well filled , well cured , as per resident engineer instruction.	M2	32		-
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5	Sign board				
5.1	Supply ,Fabricate , & install signboard (160*120 cm) poles made of steel circular pipes 3 inch dia. , 3mm thickness the total height 3m ,50cm of this height fixed inside the cubic concrete block into the ground ,110cm of it above the ground level fixed with diagonal support of angle 2inch , 5mm thickness ,making all grip elements inside the concrete , divide signboard into 3 parts (strips) Upper part made from CNC Laser penetrated with thickness 3mm ,the back cladding made of metal sheet ,the middle part made of heavy metal sheet , all the strips should include back supporting frame from steel angle size 1.5 inch the lower one also made of heavy metal sheet& all of this parts coated with antirust coating & oil paint including all logos as per designs attached .	Job	1		-
	Total amount in (_____) <i>please indicate the currency</i>				-
	VAT 17%				-
	Gross Total in (_____) <i>please indicate the currency</i>				-

