

Rehabilitation of Shuhada Al Wajeb School(Sanitary, Sewearge and Water Supply

ITEM NO	JOB DESCRIPTION	UNIT	Quantity	Rate (USD)	Amount
1	<u>Civil Work</u>				
1.1	Digging out the Sewage Pipelines AND for Stormwater by tranching the ground surface (Screed, sand bedding , Interlock flooring ,etc) and removing the damaged pipelines .(The rate shall include dumping the unwanted materials to designated area) All according to the UNICEF Construction Enginee	Lump Sum	NA		
1.2	Demolishing the Manholes (Reinforced or /and Unreinforced Concrete) (The rate shall include dumping the unwanted materials to designated area) All according to the UNICEF Construction Enginee	Lump Sum	NA		
1.3	Pouring (C25) Reiforce concrete(for theManholes with 80cm@80cm size with different hights and elevations The item shall includes the Manhole Cover Plate, All according to the UNICEF Construction Enginee	M3	8		
1.4	Installation of PVC Pipeline for the Sewage System with 8 inch size. Lay down the sand bedding beneath the Pipelines keeping the minimum slope ensuring fluid goes by gravity to the main septic tank (The item shall include all accessories and fitting All according to the UNICEF Construction Enginee(The item shall includes backfilling , concrete cover and interlocking)	M	60		
1.5	Installation of PVC Pipeline for the Stormwater System with 6 inch size. Lay down the sand bedding beneath the Pipelines keeping the minimum slope ensuring fluid goes by gravity to the main septic tank (The item shall include all accessories and fitting All according to the UNICEF Construction Enginee(The item shall includes backfilling and concrete cover)	M	40		
1.6	Cleaning off the sewage system for the entireSchool as well as the manholes and removing all sludge All according to the UNICEF Construction Enginee	Lump Sum	1		
2	<u>Sanitary, Sewerage and Water Supply Work</u>				
2.1	Installation of Swirl contract deck-mounted metal head for the toilets and wc outlet connector and flexible hose pipe as Cobra complete with angle valve as Cobra *The rate includes the replacing the exsiting ones	Item	32		
2.2	Installation of Swirl contract deck-mounted metal head for the sinks mixer tap	Item	32		
2.3	Supply and Installation PPR pipes3/4 inches all pipes shall be jointed and fixed and connected to sinks and toilets) * The rate includes all fittings and accessories as well as water pressure test must be performed to achieve zero leakage. Note: All fittings and pipe specials used in the plumbing installation shall be suitable and compatible with all respects to the pipe line to which fittings and specials are fixed.	Note	-		
2.4	3/4 pipes of PPR (Red Sea brand is preferable or any equivalent brand) attached and not limited to the followings :	M	60		
2.5	Stop valve 20mm size	Item	26		
2.6	Socket end cap 20mm size	Item	18		
2.7	Female threated brass adaptor coupling with nut of 32mm*3/4inch	Item	15		
2.8	Reducing tee 25*20mm	Item	12		

2.9	Reducing Elbow25*20mm	Item	12		
2.1	Trap Elbow	Item	7		
2.11	Multi floor drain trap200*200	Item	12		
2.12	Coupling 20mm	Item	14		
2.13	Supply and Installation of water Boiler (Ariston or Thermax an equivalent brand) 100 litre capacity (The rate includes the electric cable and plug in with socked and thermal switchers)	Item	3		
2.14	Supply and Installation of water Centrifugal Pump (SAER or DAB brand preferable) with 1hp ,0.6 -3 M3/h and 7.5 m head(The rate includes the replacing the exsiting pumps and installion of new automatic electrical switchers)	Item	2		
3	<u>Insulation Works</u>				
3.1	Installation of Waterproofing membrane on the roof. Waterproofing membrane application. One layer of 4mm thick modified bituminous membrane shall be laid fully torched on blinding concrete with minimum of 100m end laps and 150mm side laps. The rate includes the installtion of skirting all over the building parapet as well as repairing all cracks on the light concrete by open the cracks up using the grinder and filling up by using the appropriate adhesive . Note : The item shall include removing the damaged membrane and leveling the surface with slurry All according to the UNICEF Construction Engineer	M2	1500		
			Sub total in USD		0

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