

## ANNEX D- BILL OF QUANTITIES

### Lot #2: Jerusalem Area Schools

#### Renovation of Al Muntar Primary Mixed School – Sawahreh Al-Sharqiyyah – Jerusalem Area

Item	Description	Unit	Quantity	Unit Price (US \$)	Total price (US \$)
1	Supply and install of fence consists of galvanized steel mesh (Ein Jamal) (5x5)cm, 3mm thickness with clear height of 1.2m after the installation. Price to include the (50x50x5) mm black corrugated steel angles every 3m, galvanized steel wire (3mm diameter) every 40cm, the concrete footings and all required materials and works according to the drawings and supervisor engineer's instructions. Also, the price to include removing the existing fence.	MS	200		
2	Relocate the external mobile latrines: the price includes relocate mobile latrines from the nurse school area to school area (allocated area) and to connect the relocated latrines to the nearest septic tank.	LS	1		
3	Hollow concrete block ( 20cm): Supply and install hollow concrete block works on the edges of sand playground area. Price includes cement/sand mortar (1:4), all cutting, bonding, control and expansion joints, bond beams, ground beams and lintels, galvanized steel angles, butterfly ties, all needed works and accessories as per specifications and Engineer's instructions. Also, the price include supply and apply plastering from both sides and the top side.	MS	20		
4	Rehabilitation the playground area (with approximate area 250 m <sup>2</sup> ) : the price includes preparing the site, removing all rocks and filling and compaction with base coarse layer ( not less than 20cm and gravel (Adaseyah) to adjust the suitable level and to achieve the required slope for water surface discharge. (1%)	LS	1		
5	Artificial grass for playground: Supply, install and fix correctly high quality, European made or equivalent, Olympus artificial grass according to the following specifications: <ul style="list-style-type: none"> <li>• Minimum pile height of (42) mm (including the latex).</li> <li>• Minimum number of stitches is (18,000) per square meter.</li> <li>• Color is green.</li> <li>• Applicant should submit (30x30)cm grass sample attached with its datasheet.</li> <li>• The awarded contractor should submit a 3 years replacement guarantee (written and stamped) for the contract grass quantity.</li> </ul>	MS	250		

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	<ul style="list-style-type: none"> <li>• Contractor should supply and install a black plastic sheets layer (Youta) before the installation of the grass (beneath all grass area).</li> <li>• Contractor should also supply a cleaning tool for artificial grass (two units).</li> <li>• The grass should be fixed to the ground using special pins (nails and rings) with 20cm length every 1.0m at all grass piece edges.</li> <li>• Price to include leveling (excavation in any type of rock/soil, and/or compacted basecourse backfill layer) to the required level.</li> <li>• Price includes supply, furnish, watering and compaction of good quality layer of mixed single size and soft aggregate (برغوثية) with minimum depth of 10cm after compaction under the artificial grass.</li> <li>• Price include but not limited to; transportation, installation, proper and finishing works.</li> <li>• All according to the technical specifications and supervisor engineer instructions.</li> </ul>				
6	<p>Solar System PV-system (off grid)</p> <p>Supply, install, connect and test off grid solar system to produces electric energy covering the annual building electricity consumption, the work must be according to these specifications and drawing which includes, the contractor shall design the systems and detail all specifications of the products intended to be used and note that If there is no concrete surface for the school, the system should be implemented in an appropriate area in the school yard . The price includes all civil works of site adjustment in order to install the metal structure according to the duly and the required angle,</p> <p>The project shall be installed according to specifications and drawings attached in the tender document.</p>	KW	3		
<b>Total (US \$) VAT Excluded</b>					

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**Renovation of Abu Nowar Primary Mixed School – Ezariyyah– Jerusalem Area**

Item	Description	Unit	Quantity	Unit Price (US \$)	Total price (US \$)
1	Rehabilitation the playground area (with approximate area 700 m <sup>2</sup> ): the price includes preparing the site, removing all rocks and filling and compaction with base coarse layer ( not less than 20cm and gravel (Adaseyah) to adjust the suitable level and to achieve the required slope for water surface discharge.(1%)	LS	1		
2	<p>Artificial grass for playground:</p> <p>Supply, install and fix correctly high quality, European made or equivalent, Olympus artificial grass according to the following specifications:</p> <ul style="list-style-type: none"> <li>• Minimum pile height of (42) mm (including the latex).</li> <li>• Minimum number of stitches is (18,000) per square meter.</li> <li>• Color is green.</li> <li>• Applicant should submit (30x30)cm grass sample attached with its datasheet.</li> <li>• The awarded contractor should submit a 3 years replacement guarantee (written and stamped) for the contract grass quantity.</li> <li>• Contractor should supply and install a black plastic sheets layer (Youta) before the installation of the grass (beneath all grass area).</li> <li>• Contractor should also supply a cleaning tool for artificial grass (two units).</li> <li>• The grass should be fixed to the ground using special pins (nails and rings) with 20cm length every 1.0m at all grass piece edges.</li> <li>• Price to include leveling (excavation in any type of rock/soil, and/or compacted basecourse backfill layer) to the required level.</li> <li>• Price includes supply, furnish, watering and compaction of good quality layer of mixed single size and soft aggregate (برغوثية) with minimum depth of 10cm after compaction under the artificial grass.</li> <li>• Price include but not limited to; transportation, installation, proper and finishing works.</li> <li>• All according to the technical specifications and supervisor engineer instructions.</li> </ul>	MS	180		
3	Hollow concrete block ( 10cm): Supply and install hollow concrete block works on the edges of sand playground area. Price includes cement/sand mortar (1:4), all cutting, bonding, control and expansion joints, bond beams, ground beams and lintels, galvanized steel angles, butterfly ties, all needed	MS	15		

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Item	Description	Unit	Quantity	Unit Price (US \$)	Total price (US \$)
	works and accessories as per specifications and Engineer's instructions. Also, the price include supply and apply plastering from both sides and the top side.				
4	Supply and spread sand from good quality and with thickness not less than 20cm	MS	200		
5	Supply and install steel structure canopy made of Ascoret sheets (الواح اسكوريت).thickness of 0.6 mm consisting of steel frame of 30*30*3 mm steel tubes ( cantilever shape with dimensions (1m*1.5)). Fixed on walls of entrances, price includes all require steel element fixing, and fitting. The price to include also Hammer Finish painting in three coats in addition to two primer coats, and all related works as specifications and Engineer's approval.	MS	100		
6	Supply and install of TWO Plastic sewer tank with capacity 1.5m <sup>3</sup> for each tank. The price includes Excavation works for all types of soils and rocks and for the needed levels, where the final level must be determined by the engineer 2 m as min. and to keep the suitable excess materials after excavations to use in backfilling and to remove the rest to a proper place in coordination with the engineer and the local authorities. The excavation must be fit to include and to install both tanks. connect tanks with WC's or latrine with all connections, fittings.	LS	1		
7	Porcelain floors and walls tiles: Supply and install Porcelain Tiles -floor tiles (40x40*1cm ) first choice and free from all defects, anti-slip, full body . The price includes skirting of (7) cm height of same type, sand fill material, cement and sand mortar, cutting, fittings, trims, grouting, cleaning, ,and chamfering, according to specifications and Engineer's instructions.	MS	65		
8	Supply and install wooden benches ( seats ) with steel frame and install at the playground. All according to detail drawings, specifications and Engineer's instructions.	No	5		

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9	<p>Solar System  PV-system(off grid)  Supply, install, connect and test off grid solar system to produces electric energy covering the annual building electricity consumption, the work must be according to these specifications and drawing which includes, the contractor shall design the systems and detail all specifications of the products intended to be used and note that If there is no concrete surface for the school, the system should be implemented in an appropriate area in the school yard . The price includes all civil works of site adjustment in order to install the metal structure according to the duly and the required angle,  The project shall be installed according to specifications and drawings attached in the tender document.</p>	KW	3		
<b>Total in (US \$) VAT Excluded</b>					

No.	Lot #2: Jerusalem Schools Lot	Total (US \$)
1	Al Muntar School	
2	Abu Nowar School	
<b>Total Works for Jerusalem Area Schools (US \$) VAT excluded</b>		