



ISLAMIC RELIEF WORLDWIDE
WASH Department
Bill of Quantity for Pipe scheme Project

Project Name: Solar power pipe network

Province: Kunar

District: Marawara

Village/CDC: Dari Dam

| S/N | Activity Description | Unit | Quantity | Unit Cost AFN | Total Cost AFN | Remarks |
|----------|---|----------------|----------|------------------|-------------------|---------|
| A | BoQ for 60 cubic meter Ground water Reservoir | | | | | |
| A1 | Excavation with prepararion : Site preparation and and leveling and making of access way for Mazda Car and Excavation ground type 3-5 for proposed Tank and Valve box foundations, to clean site from all existent materails the excavated materials should be put 1.5 m away from sides (Rocky Layer, Hard cutting) According to attached technical drawing, technical specification and engineering considerations. کنن کاری در زمین قسم سوم الی پنجم | M ³ | 132 | | | |
| A2 | PCC (Plain Cement Concrete), M(1:2:4) mix ratio with all required work and labor cost for base of foundation with 7 days curing and watering of Water tank and Valve box , According to attached drawing and site focal point instruction. کانکریٹ بدون سیخ با مارک ذکر شده | M ³ | 10 | | | |
| A3 | RCC (Reinforced Cement Concrete), M-(1:1.5:3) Crush gravel must be used the R.C.C work including Bar-bending and Form work with all required work the curing must be continued up to a month according to attached drawing and specification steel should be KSM as assign engineer consideration. کانکریٹ سیخدار با مارک ذکر شده همراهی قالب بندی ان مطابق نقشه. | M ³ | 20 | | | |
| A4 | Stone Masonry Work: Stone masonry for foundation and superstructure: use 1:4 ratio of mortar, stone shall have high bearing capacity and smooth surface for decoration. With it's all related activities according to the drawing and technical specification | M ³ | 74 | | | |
| A5 | Cement Sand pointing Work: M 1:3 on stone masonry work on exposed surface including racking the joints, wetting the surface, and curing With it's all related activities according to the drawing and technical specification | M ³ | 100 | | | |
| A6 | Plastering Work (Interior of Water Tank) M(1:3) The plaster should have waterproof admixture (ISOMAT) products/zero chips/Paddlo powder with 2-2.5 cm plastering according to technical requirements, two layers, with proper curing. پلستر کاری داخلی با مارک ذکر شده | M ² | 84 | | | |
| A7 | Plastering Work (Exterior Side of Water Tank) M(1:3) The Materials Should be according to attached Specification with 2-2.5 cm plastering according to technical requirements, with proper curing. پلستر کاری خارجی با مارک ذکر شده. | M ² | 45 | | | |
| A8 | Roof Insulation: Supply and installation of Isogam according to Engineering technical requirement and specification. تهیه و نصب ایزوگام برای پوشش سقف ذخیره | M ² | 54 | | | |
| A9 | Iron mainhole. Supply and Installation of iron gate for reservoir manhole (60x60) and (100x100) cm (3 mm Steel sheet) with lockable system and all required work/fittings according to drawing (Functional) تهیه و نصب ماینهول (Functional) اهنی مطابق نقشه | Pcs | 2 | | | |

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| A10 | Ladder : Supply and installation of GI Ladder with painting of main ladder and interior ladder of Water tank according to Attached Drawing Specification. | M | 2 | | | |
| A11 | Inlet GI Pipe. Supply and Installation GI Pipe Ø 2 ", Min Wall thickness =2.9 mm, Min Weight =5.20 Kg/M with cross bar welding and other accessories as drawing. | M | 5 | | | |
| A12 | Over flow Pipe: Supply and Installation GI Pipe Ø 3", Min Wall thickness =2.9 mm, Min Weight =6.25 Kg/M with cross bar welding and other accessories according to Attached Drawing Specification. | M | 5 | | | |
| A13 | Outlet Pipe : Supply and Installation GI Pipe Ø 3", Min Wall thickness =2.9 mm, Min Weight =6.25 Kg/M with cross bar welding and other accessories according to Attached Drawing Specification. | M | 5 | | | |
| A14 | Ventilation Pipe: Supply and Installation GI Pipe Ø 2.5", Min Wall thickness =2.6mm, Min Weight =3.81Kg/M with 2 Elbows, and net cover according to the Attached Drawing Specification. | M | 1 | | | |
| A15 | Flanged Gate Valve : Supply and installation of Flanged Gate Valve Ø 3" with Nut Bolt and Washers and other accessories. And with relevant composite fitting to be connected with (OD 160) mm HDPE pipes. [Spec. Sec. No. 5220] | No | 2 | | | |
| A16 | Back Filling : Back filling by well-compacted materials (the compaction should be layer by layer according to Engineering technical considerations for elevated water tank around. پر کاری خاک مع نیک کاری. | M ³ | 30 | | | |
| A17 | Painting Work: Supply and painting of Whether Shield Painting work (100%) with three coats for water tank. | M ² | 108 | | | |
| A18 | Metalic Sign board: Supply and installation of Metalic sign board for the project (120x100)cm and height of pilar should be 2m with all required activities as per site Engineer instruction. | Job | 1 | | | |
| A19 | Sign board: Supply and installation of stone sign board for project (60x50)cm as per site Engineer instruction. | Job | 2 | | | |
| A20 | Calligraphy work: writing of Hadis Shareef and some hygiene promotion messages with pictures and logos as per site technical focal point instruction. | Job | 1 | | | |
| A21 | Site Supervisor: the hiring of site supervisor for quality control of project activities as per IRW HR policy for 90 days. | day | 90 | | | |
| A22 | Drain Pipe: Supply and Installation GI Pipe Ø 3", Min Wall thickness =2.9 mm, Min Weight =6.25 Kg/M with cross bar welding and other accessories according to Attached Drawing Specification. | M | 2 | | | |
| Sub Total for water elevated tank and bore well potection and valve mainhole | | | | | AFN | - |
| B | BoQ for Spring protaction | | | | | |
| B1 | Preparation/Excavation: Excavation ground type 3-5 for proposed spring protection, to clean site from all existent materails the excavated materials should be put 1.5 m away from sides (Rocky Layer, Hard cutting) According to attached technical drawing, technical specification and engineering considerations. | M ³ | 89 | | AFN | - |
| B2 | Stone bolder Pitching: Supply and pitching of stone in foundation and surrounding area of stand post. | M ³ | 5.7 | | AFN | - |

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| B3 | PCC (Plain Cement Concrete), M(1:2:4) mix ratio with all required work and labor cost for base of foundation with 7 days curing and watering of Water tank and Valve box , According to attached drawing and site focal point instruction. کنکریٹ بدون سیخ یا مارک ذکر شده | M ³ | 2 | | AFN | - | |
| B4 | RCC (Reinforced Cement Concrete), M-(1:1.5:3) Crush gravel must be used the R.C.C work including Bar-bending and Form work with all required work the curing must be continued up to a month according to attached drawing and specification as assign engineering consideration. کانکریٹ سیخدار یا مارک ذکر شده همراهی قالب بندی ان مطابق نقشه. | M ³ | 10.3 | | AFN | - | |
| B5 | Stone Masonry Work: Stone masonry for foundation and superstructure: use 1:4 ratio of mortar, stone shall have high bearing capacity and smooth surface for decoration. With it's all related activities according to the drawing and technical specification | M ³ | 10 | | AFN | - | |
| B6 | Stone Masonry (Catchments surrounding According to attached drawing | M ³ | 6 | | AFN | - | |
| B7 | Plastering Work M(1:3) The plaster should be 2-2.5 cm plastering according to technical requirements, with proper curing. پلستر کاری با مارک ذکر شده | M ² | 36 | | AFN | - | |
| B8 | HDPE/Pipe/PN10/Dia=110mm Supply and installation of (SDR17)- (W.T-4.5mm)- Weight(1.02Kg/m)ISO4427, DIN8074, ASTM D2239, ASTM D2737, ASTM D3035, ASTM D2517, All relevant marks should be attached in pipe (Bar, measurement length, Standards). [Spec. Sec. No. 5220] | m | 30 | | AFN | - | |
| B9 | Wash out pipe Supply and Installation GI Pipe Ø 4", Min Wall thickness =3.2 mm, Min Weight =9Kg/M with cross bar welding and other accessories according to Attached Drawing Specification. | m | 2 | | AFN | - | |
| B10 | Over flow pipe: Supply and Installation GI Pipe Ø 4", Min Wall thickness =3.2 mm, Min Weight =9Kg/M with cross bar welding and other accessories according to Attached Drawing Specification. | m | 1 | | AFN | - | |
| B11 | Inlet GI Pipe Closeded with Screen . Supply and Installation GI Pipe Ø 2 " , Min Wall thickness =2.9 mm, Min Weight =5.20 Kg/M with cross bar welding and other accessories as drawing. | m | 5 | | AFN | - | |
| B12 | Flanged Gate Valve: Supply and installation of Flanged Gate Valve Ø 4" with Nut Bolt and Washers and other accessories. And with relevant composite fitting to be connected with (OD 160) mm HDPE pipes. [Spec. Sec. No. 5220] | no | 1 | | AFN | - | |
| B13 | Roof Insulation: Supply and installation of Isogam according to Engineering technical requirement and specification. نصب ایزوگام برای پوشش سقف ذخیره | M ² | 54 | | AFN | - | |
| B14 | Precast slab Size 0.5m*1.8 according to attached Drawing | no | 5 | | AFN | - | |
| | Grand ToTal Cost For Spring protaction | | | | AFN | - | |

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| C | BoQ for Protection Wall Stone Massonary | | | | | |
| C1 | Excavation with prepararion : Site preparation and and leveling and making of axcess way for Mazda Car and Excavation ground type 3-5 for proposed Wall foundations, to clean site from all existent materails the excavated materials should be put 2 m away from sides (Rocky Layer, Hard cutting) According to attached technical drawing, technical specification and engineering considerations. | M ³ | 26.4 | | AFN | - |
| C2 | PCC (Plain Cement Concrete), M(1:2:4) mix ratio with all required work and labor cost for base of foundation with 7 days curing and watering of Water tank and Valve box , According to attached drawing and site focal point instruction. کانکریٹ بدون سیخ با مارک ذکر شده | M ³ | 5 | | AFN | - |
| C3 | Stone Masonry Work: Stone masonry for foundation and superstructure: use 1:4 ratio of mortar, stone shall have high bearing capacity and smooth surface for decoration. With it's all related activities according to the drawing and technical specification | M ³ | 18.52 | | AFN | - |
| C4 | Cement Sand pointing Work: M 1:3 on stone masonry work on exposed surface including racking the joints, wetting the surface, and curing With it's all related activities according to the drawing and technical specification | M2 | 35 | | AFN | - |
| | Grand ToTal Cost For Protaction Wall Sone Massonary | | | | AFN | - |
| D | BoQ for one Controle valve mainhole for distirbution line | | | | | |
| D1 | Preparation/Excavation: Excavation ground type 3-5 for proposed bore well protection mainhole, to clean site from all existent materails the excavated materials should be put 1.5 m away from sides (Rocky Layer, Hard cutting) According to attached technical drawing, technical specification and engineering considerations. کندن کاری در زمین قسم سوم الی پنجم | M ³ | 0.8 | | AFN | - |
| D2 | Stone bolder Pitching: Supply and pitching of stone in foundation and surrounding area of stand post. | M ³ | 0.1 | | AFN | - |
| D3 | RCC (Reinforced Cement Concrete), M-(1:1.5:3) Crush gravel must be used for the R.C.C work including Bar-bending and Form work with all required work the curing must be continued up to a month according to attached drawing and specification as asign engineering consideration. کانکریٹ سیخدار با مارک ذکر شده همراهی قالب بندی ان مطابق نقشه. | M ³ | 0.3 | | AFN | - |
| D4 | Iron manhole. Supply and Installation of iron manhole (50x50) as per site Technical focal point instructions | Ls | 1 | | AFN | - |
| D5 | Plastering Work M(1:3) The plaster should be 2-2.5 cm plastering according to technical requirements, with proper curing. پلستر کاری با مارک ذکر شده | M ² | 1 | | AFN | - |
| | Sub-Total Cost for one Main hole | | | | AFN | - |
| E | Grand-Total Cost for 3 Main hole | | | | AFN | - |
| | Boq for one House connection Stand tap | | | | | |

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|----------|--|----------------|-------|--|-----|---|--|
| E1 | Preparation/Excavation: Excavation ground type 3-5 for proposed STP, to clean site from all existent materails the excavated materials should be put 1.5 m away from sides (Rocky Layer, Hard cutting) According to attached technical drawing, technical specification and engineering considerations. کندن کاری در زمین قسم سوم الی پنجم | M ³ | 0.786 | | AFN | - | |
| E2 | Stone bolder Pitching: Supply and pitching of stone in foundation and surrounding area of stand post. | M ³ | 0.225 | | AFN | - | |
| E3 | PCC (Plain Cement Concrete), M(1:2:4) Mix ratio with all required work and labor cost for base of foundation with 7 days curing and watering of STP , According to attached drawing and site focal point instruction. کانکریت بدون سیخ با مارک ذکر شده | M ³ | 0.18 | | AFN | - | |
| E4 | Plastering Work M(1:3) The plaster should be 2-2.5 cm plastering according to technical requirements, with proper curing. پلستر کاری با مارک ذکر شده | M ² | 3.3 | | AFN | - | |
| E5 | Painting Work: Supply and painting of Whether Shield Painting work (100%) with three coats for water tank. | M | 3 | | AFN | - | |
| E6 | House Connection Fittings: house connection from Main pipe to inside of house with all its features and accessories (PE-FTA, GI- Gate Valve (best Quality), Water Meter(Best Quality) 1/2", Non-Returning Valve 1/2", Water Tap (Best Quality)1/2", PPR-FTA 1/2", PPR Elbow 1/2", PPR-Pipe 16 Bars 1/2" and Water Meter Box (Best Quality, Heavy duty) with Average length of 26m of each pipe and prefabricated heavy duty water meter Box including all concerte and plaster works تهیه و تمدید نل از پایپ عمومی الی داخل خانه ها با تمامی ملحقات ان از قبیل سدل بست زانوخم اتصال ماده گیت وال فلکه پایپ به طول ۲۰ متر به قطر ۲۰ ملی متر میتر تنیه وال شیردهن ساکت میتر بکس قبلا ساخته شده با کیفیت عالی | L.s | 1 | | AFN | - | |
| | Sub-Total Cost for one House connection Stand tap | | | | AFN | - | |
| | Grand-Total Cost for 96 House connection Stand tap | | | | AFN | - | |
| F | BoQ of Boundary wall, Solar fram aprron and Guard room for PV-System | | | | | | |
| F1 | Excavation in Foundation: Excavation according to drawing and technical requirements. | M ³ | 40 | | AFN | - | |
| F2 | Stone Masonry Work: Stone masonry for foundation and superstructure: use 1:4 ratio of mortar, stone shall have high bearing capacity and smooth surface for decoration. With it's all related activities according to the drawing and technical specification | M ³ | 120.3 | | AFN | - | |
| F3 | Pointing Work Pointing of existing stone masonry with 1:4mortar of cement and sand with it's all related activities according to required specification. | M ² | 305 | | AFN | - | |
| F4 | P.C.C (Plain Cement concrete) M(1:2:4) According to Attached Drawing and its specification | M ³ | 11.7 | | AFN | - | |
| F5 | RCC (Reinforced Cement Concrete), M-(1:1.5:3) for solar aprron beams: Crush gravel must be used the R.C.C work including Bar-bending and Form work with all required work the curing must be continued up to a month according to attached drawing and specification steel should be KSM as assign engineer consideration. کانکریت سیخدار با مارک ذکر شده همراهی قالب بندی ان مطابق نقشه. | M ³ | 7 | | AFN | - | |
| F6 | Brick Masonry Work M(1:4) : Bricks masonry with burned bricks with 25% mortar(M:300, 1:4) | M ³ | 2.8 | | AFN | - | |

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| F7 | Plastering Work, M(1:4) the Sand, Cement should be according to attached specification and curing should be properly done according to site requirement and technical recommendations. | M ² | 126 | | AFN | - | |
| F8 | Metallic Steel Gate: Supply and installation of Metallic Steel gate Th=20 Gauge Iron sheet According to Technical specification and with all required item. | M ² | 7.5 | | AFN | - | |
| F9 | Wooden window & door: Supply and installation of best quality window and door According to drawing and IRW technical focal point instruction. | M ² | 5.5 | | AFN | - | |
| F10 | GI solar panel frame: Supply and installation of GI solar panels frame with painting according to the attached technical drawing and spec and as instruction of IRW site Engineer. | LS | 1 | | AFN | - | |
| F11 | Fence , Barbed Wire : Supply and installation of Safety Fence, Barbed wire according to attached drawing and its specification. | M | 50 | | AFN | - | |
| F12 | Painting Work: Whether Shield Painting work (100%) with three coats. | M ² | 183.6 | | AFN | - | |
| F13 | Electrical work for Guard room: Supply and installation of all required electrical tools and installation (lights, Maghan line. switches, tapes, etc...) as per site technical focal point instruction. | Ls | 1 | | AFN | - | |
| F14 | Back Filling. Layer by Layer back filling with proper compaction, and Drain out of Inside of boundary, according to site requirement. | M ³ | 7 | | AFN | - | |
| | | | | | AFN | - | |
| G | BoQ for Pipe networks | | | | | | |
| G1 | Excavation of Trench: Excavation of trench (Soft Soil, Hard Cutting) According attached Drawing and Specification. | M ³ | 1503 | | AFN | - | |
| G2 | Supply and Installation of Caution Tape: Caution tape should be installed in trench according to attached drawing. | M | 2000 | | AFN | - | |
| G3 | Back Filling of Trench: Back Filling of trench with proper compaction, curing and caution, | M ³ | 1127 | | AFN | - | |
| G4 | Back filling of Trench with Soil: Back filling of trench by soil according to attached drawing and its specification. | M ³ | 376 | | AFN | - | |
| G5 | HDPE/Pipe/PN10/Dia=40mm Supply and installation of (SDR17)- (W.T-2.4mm)- Weight(0.295Kg/m)ISO4427, DIN8074, ASTM D2239, ASTM D2737, ASTM D3035, ASTM D2515 All relevant marks should be attached in pipe (Bar, measurement length, Standards). [Spec. Sec. No. 5220] | M | 1880 | | AFN | - | |
| G6 | HDPE/Pipe/PN10/Dia=50mm Supply and installation of (SDR17)- (W.T-3mm)- Weight(0.453Kg/m)ISO4427, DIN8074, ASTM D2239, ASTM D2737, ASTM D3035, ASTM D2515 All relevant marks should be attached in pipe (Bar, measurement length, Standards). [Spec. Sec. No. 5220] | M | 1190 | | AFN | - | |
| G7 | HDPE/Pipe/PN10/Dia=63mm Supply and installation of (SDR17)- (W.T-4.7mm)- Weight(0.95Kg/m)ISO4427, DIN8074, ASTM D2239, ASTM D2737, ASTM D3035, ASTM D2517, All relevant marks should be attached in pipe (Bar, measurement length, Standards). [Spec. Sec. No. 5220] | M | 320 | | AFN | - | |

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| G8 | HDPE/Pipe/PN10/Dia=75mm Supply and installation of (SDR17)- (W.T-5.6mm)- Weight(1.02Kg/m)ISO4427, DIN8074, ASTM D2239, ASTM D2737, ASTM D3035, ASTM D2517, All relevant marks should be attached in pipe (Bar, measurement length, Standards). [Spec. Sec. No. 5220] | M | 367 | | AFN | - | |
| G9 | P.C.C (Plain Cement concrete) M(1:2:4) (M:150) for the pouring of HDPE pipe the unit cost includes all relevant costs i.e. materials, labors, formwork and curing.. | M ³ | 30 | | AFN | - | |
| G10 | PE Fittings 16 Bars with plumbing work: Supply, Installation, Laying and fitting of HDPE+GI pipes (Flanged adapter, Sockets, Elbows, TEEs, | L.s | 1 | | AFN | - | |
| G11 | GI Supply and Installation GI Pipe Ø 4.5", Min Wall thickness =3.2 mm, Min Weight =9Kg/M with cross bar welding and other accessories according to Attached Drawing Specification. | m | 40 | | AFN | - | |
| G12 | Suspension Cable Stinless wire Rope 16 mm with All relevant | m | 50 | | AFN | - | |
| G13 | GI Pipe. Supply and Installation GI Pipe Ø 2 ", Min Wall thickness =2.9 mm, Min Weight =5.20 Kg/M with cross bar welding and other accessories as drawing. | M | 25 | | AFN | - | |
| G14 | Suspension Cable Stinless wire Rope 14 mm with All relevant | m | 40 | | AFN | - | |
| G15 | PE Fittings 16 Bars with plumbing work: Supply, Installation, Laying and fitting of HDPE+GI pipes (Flanged adapter, Sockets, Elbows, TEEs, Saddle Clamps, Reducers, M/F Adapter, Gate valve and etc.) with Supplying and installation according to drawing and its specifications. | L.s | 1 | | AFN | - | |
| | Sub-Total Cost for Pipe Network | | | | AFN | - | |
| H | BoQ for Solar Panels | | | | | | |
| H1 | Solar Panel: European-made or Equivalent meet by IEC, ISO, TUV, and CE, According to the following Electrical Parameters. Minimum Power Output (P)=270 Watts it it not available the contractor can purchase a 540-watt solar panel as per technical focal point instruction. Maximum power voltage (Vmp): 31.6.2V Open circuit voltage(Voc): 38 - 38.4V Max power point current (Imp): 8.5 - 9.5A Module short circuit current (Isc): 9 - 10 A Series Fuse Rating >=15 Amp Range of ambient temperature: 233 .. 358 K Temperature coefficient (Voc): -0.31% /C° Power tolerance: +3 to 5 % Solar module type: POLYCRYSTALLINE or MONOCRYSTALLINE Waterproof PV junction boxes IP68 for each array including DC Fuses, DC switch disconnectors, bus bars, terminals, ducts or trays, supports & labels suitable to the PV array loads. The contractor must submit a manufacturer warranty for solar panels for a period not less than 25 years. The contractor must submit all the required certificates for each PV solar panel from Serial number of PV Panel should be certified by the manufacturing company, for more details and electrical parameters refer to attached Design. | Watt | 9,720.00 | | AFN | - | |

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| H2 | Submersible pump with its Compatible inverter, control box and Fuse box in stainless steel. Supply and installation of European Made submersible according to the following parameters. Comply EN 1.4301 (AISI 304).EN 1.4301 (AISI 304). DIN 1.45301 (AISI 304). EN 1.4401 (AISI 316).. Rated power - P-6.275 KW, based on Pump performance Rated voltage: 3*220-230 V Rated power: 6.275 Kw Main frequency: 50 Hz Avg. water production per day: (14 m³/Hourse), Compatible inverter: RSI 3x208-240V IP66 7.5kW 31A, (7.5-) Kw 31 A, Pure sine wave, VFD and soft starter With PV disconnecter for DC, from Solar panels to inverter connection (Punctual) TDH =90 m, it is the initial TDH, the Actual TDH will be declared after Boring well and Pump test. distance between tank and Spring =500) M, Approximately. Solar pump P2=5.5KW according to the technical specification and requirement, Contractor must submit manufacturer warranty for solar Pump for a period not less than 2 years. Contractor must submit all the required certificates for solar pump Serial number of Solar pump should be certified by manufacturing company | set | 1 | | AFN | - | |
| H3 | Well Probe Sensor: Dry running sensor including Electrical Wire and other fittings , According to Attached Electrical parameters | set | 1 | | AFN | - | |
| H4 | Float Switch : Float Switch including required Electrical Wire and conduit, The Float Switch should be installed properly according to attached Specification and engineer recommendations. | set | 1 | | AFN | - | |
| H5 | Motor (Submersible Electrical Cable) (3x20) mm² 3-phase cable for power and 1-phase cable for ground according to drawing and technical requirements(Turkish made) | M | 100 | | AFN | - | |
| H6 | PV System-Inverter Cable (1x10mm²), Cable from PV-combiner Box to Inverter (Turkish made) | M | 30 | | AFN | - | |
| H7 | Grounding/Earthing. All system Should be properly Grounded by ground Rod and Copper Cable (PV, PV-Frame, Inverter, Submersible and other electrical installed features) | LS | 1 | | AFN | - | |
| H8 | Cable Splice Kits: (2.5 mm -6mm²) : The Cable and other fixtures should be properly fixed. | set | 1 | | AFN | - | |
| H9 | Pump Holding Cable : Plastic made, diameter=12 mm with its relevant accessories and features. | M | 40 | | AFN | - | |
| H10 | Wire Ties White and Black | Packet | 1 | | AFN | - | |
| H11 | Electrical Conduit: Electrical Conduit for External Wire: | L.s | 1 | | AFN | - | |
| H12 | Circuit Breaker and Auto Fuses: Circuit Breaker and Auto fuses should be installed to prevent system during electrical issues. | Set | 1 | | AFN | - | |
| H13 | Non-Returning Valve (Flanged): Supply and installation of 50 mm Non-Returning Valve + Flanged Fittings According to Pump Rising Pipe. | Set | 1 | | AFN | - | |
| H14 | Gate Valve Supply and installation of Gate Valve (2 "), for controlling water well discharge with Washer and other relevant accessories. | No | 1 | | AFN | - | |

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| H15 | PRV: Supply, Installation, of 75 mm Dia PRV with All required activities and work (Punctual) | PCs | 1 | | AFN | - | |
| H16 | Mechanic Kits, Supply and provide of mechanic kits to community (36 inch, 24 inch and 12 inch pipe wrench, 12 inch screw wrench, hack saw with 10 blads, 5 paire gloves, 2 screw drivers, 0.5 Kg hammer, wrench box, and with kit box) best quality as instruction of site engineer. | Ls | 1 | | AFN | - | |
| | Sub-Total Cost for Solar Panels | | | | AFN | - | |
| Grand Total for All BoQ | | | | | AFN | - | |