

ISLAMIC RELIEF PAKISTAN						
Scheme: Construction of Nursery Shed Fencing, Development of Borehole and roof treatment at Pakistan Forest Institute (PFI) District Peshawar-Annexure-A						
S.No	Items & Specification	Item Brand	Quantity	Unit	Unit Rate	Total Amount
1	Excavation, Clearance, Dressing & Leveling of Bed					
a	Earth excavation in open cut upto 1.5m depth for drains, pipes etc. & disposal : in Hard Soil to design section and re-use of excavated material for backfilling/borrow material if required properly compacted as per the instruction of engineer in charge		2538.00	Cft		
2	Formation, dressing					
a	Formation, dressing, compacting and preparing sub-grade in bed as per Engineer instructions Bed clearance and dressing slopes of channels/Water transport structures (Nacka's) including removing of weeds and roots etc. Excavated material should be dressed within 100m lead		6889.00	Sft		
3	Backfilling in Trays					
a	Structural Backfill using Common Material brought from outside with ramming water and compacting in trays		1680.00	Sft		
4	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)					
a	Providing and laying Plain cement concrete including shuttering, maxing, placing, compacting, finishing (nominal mix ration 1:4:8) (the crush must be well graded, free from mud and dust and the sand will be fine & clear from mud/dust) as in bed, foundations complete in all respect. Required crushing strength must be not less than 1800 psi.		1748.75	Cft		
5	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)					
a	Providing and laying plain cement concrete including shuttering, placing, compacting, finishing and curing (Nominal mix ration 1:2:4) in foundation under walls and pipe culverts etc. Maxing of concrete ingredients must be on a surface which having zero water absorption capacity like concrete floor or thick polythene sheet etc.		949.83	Cft		
6	Reinforced Cement Concrete including placing, compacting, finishing & curing (Ratio 1:2:4)					
a	Providing and laying Reinforced cement concrete including shuttering, placing, compacting, finishing and curing (Nominal mix ration 1:2:4)		31.17	Cft		
7	Brick Work in (1:4 CSM)					
a	1st class brick work other than building upto 10 ft. height : Cement, sand mortar 1:4 First class burnt brick masonry in 1:4 cement sand mator , comprising 9" and above thick as in Gate Piller & Water Tank, complete in all respects.		2165.56	Cft		
8	Damp Proof Course (DPC)					
a	Damp proof course of cem. conc. 1:2:4 including bitumen coat, 1 layer polythene & 1 coat bitumen (2" thick)		9.00	sft		
9	PCC Coping 1:2:4 on BBM					
a	Providing and laying plain cement concrete including shuttering, placing, compacting, finishing and curing (Nominal mix ration 1:2:4) in coping of Nacka's and other areas as per requirements (2" thick)		9.00	Sft		
10	Steel Work # 4 & 3 Deform bars Grad 40					
a	Steel Work # 4 & 3 Deform bars Grad 40		41.70	Kg		
11	Plaster work in 1:4 CSM					
a	Cement plaster in 1:4 CSM 1/2" upto 20' height including curing, Shuttering complete in all respect		3660.00	Sft		
12	P.C Pointing in (1:2) CSM					
a	Cement pointing struck joints on walls, upto 20' height : Ratio 1:2, curig upto 14 days, proper finishing and edges of masonry should be made of plaster in border shape.		119.00	Sft		
13	weather shield of Gate & Nursery Piller of nursery.					
a	weather shield of Gate & Nursery Piller of nursery.		3779.00	Sft		
14	CGI and PGI sheets					
a	Supply & fix corrugated CGI Colored sheet with GI bolts, nuts, limpet etc. complete : 24 SWG		216.00	Sft		
b.	Plain GI sheet ridging including fixture complete 9" lap & 24" overall, of 24 gauge GI sheet ridging		90.00	Sft		
15	F/Installation of frame on reservoir 15'x10' and waiting area					

S.No	Items & Specification	Item Brand	Quantity	Unit	Unit Rate	Total Amount
a	Providing and fixing top cover for reservoir fabricated from CGI sheet 25 gauge including mild steel frame made of square hollow section (SHS) 2"x2" and bracing pipe 1.5"x1.5" 16 gauge of approved quality and thickness. The cover shall be fabricated in suitable panels for easy handling and properly fixed over the top of reservoir with adequate support frame and welding where required. The cover shall include provision of a Main hole 4'-0" x 4'-0" made within the cover, include all material, cutting, welding, fabrication, transportation, hoisting, fixing in position, nuts, bolts, screws, paint, and all other incidental charges complete in all respects as per Engineer's direction		150.00	Sft		
b	Providing and fixing for Waiting Shed fabricated from CGI sheet 25 gauge including mild steel frame made of square hollow section (SHS) 2"x2" and bracing pipe 1.5"x1.5" 16 gauge of approved quality and thickness. The cover shall be fabricated in suitable panels for easy handling and properly fixed over the top of reservoir with adequate support frame and welding where required. The cover shall include provision of a Main hole 4'-0" x 4'-0" made within the cover, include all material, cutting, welding, fabrication, transportation, hoisting, fixing in position, nuts, bolts, screws, paint, and all other incidental charges complete in all respects as per Engineer's direction		150.00	Sft		
16	Main Gate 2 No for Nursery Farm					
a	Providing and fixing of Main Gate for Nursery Farm, fabricated from Mild Steel (MS) square hollow sections, consisting of vertical members made of 1½" x 1½" x 14 gauge square pipe and horizontal members made of 1½" x 1½" x 14 gauge square pipe, with main vertical posts/columns made of 2" x 2" x 12 gauge square pipe firmly fixed in position with hinges, locking arrangements, and necessary supporting members as per approved design. The gate shall include decorative mild steel bars, rings, as directed by the Engineer in charge. All welded joints shall be properly ground and finished smooth. The entire gate shall be cleaned, primed, and painted with two coats of approved synthetic enamel paint over one coat of red oxide primer. The rate shall include all materials, cutting, welding, fabrication, painting, hinges, locking system, installation, and fixing in position complete in all respects as per Engineer's direction.		112.00	Sft		
17	Paint work.					
a	Painting old surfaces : Doors / windows any type Each subsequent coat, Painting old surfaces : Doors / windows any type Each subsequent coat and Painting old surfaces : Ceiling any type Each subsequent coat		109.00	Sft		
18	Posts: 2" dia GI pipe, IIL-L,					
a	Posts: 2" dia GI pipe, IIL-L, 6'-0" long and welds two numbers of 1.5"x1.5" angle iron with each pipe for bonding with concrete and 01 no Stopper 2" dia for Each pipe to protect from rain water.		34.00	No,s		
b	Posts: 2" dia GI pipe, IIL-L, 6'-0" long and welds two numbers of 1.5"x1.5" angle iron with each pipe for bonding with concrete and 01 no Stopper 2" dia for Each pipe to protect from rain water.		32.00	No,s		
c	Posts: 3" dia GI pipe, IIL-L, average 10'-0" long and welds two numbers of 1.5"x1.5" angle iron with each pipe for bonding with concrete and made proper arrangement i-e gross plate with nuts bolts and welding for joints to hold the tunnel shed pipes		6.00	No,s		
19	Fencing					
a	Fencing infill shall be of GI mesh, 12 gauge, 3" x 3" square opening, fixed to posts with clamps and welding complete in all respects as per drawings, specifications, and engineer's instructions. Posts: 2" dia GI pipe, 6'-0" long (4'-0" above ground, 2'-0" embedded). Top Rail (optional): 2" dia GI pipe continuous along posts for strength. Mesh Fixing: Mesh stretched tightly, fixed with GI clamps and welding tack points at top & bottom. Height of Fence: Normally 5'-6', but can vary as per site requirement. Finish: All welds and pipes painted with 2 coats of anti-rust red oxide primer and 2 coats of synthetic enamel paint.		1500.00	Sft		
20	Tuff Tile in the Middle of Nursery Shed Access Way.					
a	Providing and Fixing Precast Concrete 7000 psi TUFF Tiles 50mm thick over bed of 2" thick sand cushion		688.00	Sft		
21	GI Rope Cable 4mm dia for Agro Sheet Crossing					
a	Providing, fixing cutting joint with nut bolts and all type of hooks using different warshalls in GI Rope Cable 4mm dia for Agro Sheet Crossing		1200.00	Rft		

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22	Newly Green Agro Sheet					
a	Providing and fixing newly Green Agro Sheet for Nursery Farm, of good quality UV-stabilized polyethylene material suitable for agricultural and nursery use, ensuring adequate protection from sunlight and environmental effects. The sheet shall be fixed over a pre-fabricated frame or structure using G.I. wire, nuts, bolts, clamps, and other necessary fixing accessories, ensuring proper tension, alignment, and secure installation. The work includes cutting, fitting, stretching, and fastening of the sheet, as well as anchoring and overlapping where required to make the entire installation weatherproof and durable. All materials and workmanship shall be of approved quality and completed as per the directions of the Engineer in charge.		6300.00	Sft		
23	DC Solar Pump					
a	Supplying, installing, testing, and commissioning of DC Monoblock Water Pump (Type SE), capacity 1.0 to 1.5 HP, with suction and delivery size of 1½" x 1", suitable for operation up to 90 feet total head. The pump shall be DC-operated (suitable for solar power system), brushless type motor, energy-efficient and designed for continuous duty operation. The work shall include all accessories such as suction and delivery pipes, G.I. fittings, foot valve, non-return valve (NRV), base plate, foundation bolts, electrical connections, and necessary control wiring. All materials shall be of approved make and standard quality, conforming to relevant IEC/ISO standards. Installation shall be carried out as per manufacturer's recommendations, ensuring proper alignment, priming arrangement, and leak-proof joints.		1.00	No,s		
24	Solar Pannel 585 Watts along with providing and fixing of L2 frame:					
a	Solar Pannel 585 Watts along with providing and fixing of L2 frame: Supply and installation of Mono-crystalline A-Grade Solar PV Module (Single face or Bifacial)(N-type latest technology) with a minimum capacity of 580 watts per PV Module, featuring a minimum module efficiency of 22% (Single face Module). The panel must comply with international standards, including IEC 61215:2016, IEC 61730-1:2004, IEC 61730-2:2004, and IEC 61710. Preference will be given to panels with Anti-PID Certification based on IEC TS-62804-1 standards (e.g., TUV PPP-58042). The module should deliver outstanding conversion efficiency and be compatible with high-voltage input inverters/charge controllers (1000 Vdc). It must include a clear anodized aluminum frame with anti-reflection cover glass, and exhibit resistance to ammonia and salt mist corrosion. Each panel should be equipped with a factory-installed weatherproof terminal junction box (minimum IP65 protection), allowing for easy replacement of DC cables, debugging, and blocking diodes. A minimum 25-year performance warranty for minimum 80% output power is required. Panels must include brand name, serial number, import date, and manufacturing date, with certified high wind speed resistance and flash test reports provided for samples. All data should be accessible and verifiable online on the manufacturer's website. Canadian Solar, Jinko Solar, Longi Solar or any other best available and reputed brand with actual import documents and other necessary items to be validated as per the specifications or sample provided. Construction of PCC foundation for L2 frame		2.00	No,s		
25	HDPE and GI Pipes Fitting					
a	Providing and fixing of HDPE fittings clamp of best quality for distribution line from main line. The sizes of clamp should be as per the mentioned pipe dia's (including testing etc. complete in all aspects). 40 mm dia		500.00	Rft		
b	Providing and fixing of HDPE fittings clamp of best quality for distribution line from main line. The sizes of clamp should be as per the mentioned pipe dia's (including testing etc. complete in all aspects). 32 mm dia		500.00	Rft		
c	Providing, fabricating, fixing and erecting elevated nursery tunnel structure using 1" dia GI pipe (IIL-EL or equivalent), including vertical posts, horizontal members, roof arches and bracing, complete with base plates, anchor bolts, PCC foundations, nuts, bolts, clamps and all structural accessories, along with supplying and fixing UV-stabilized agro green shade net with GI wire/rope, hooks, clips and fastening arrangement, including anti-rust coating, and all labour, tools and equipment required to complete the work in all respects as per specifications.		700.00	Rft		
d	Providing and Laying GI pipe IIL-L for water sprinkler including cutting, jointing, testing, fitting complete in all respect (1" dia)		100.00	Rft		

S.No	Items & Specification	Item Brand	Quantity	Unit	Unit Rate	Total Amount
e	Providing and Laying GI pipe IIL-EL for water sprinkler including cutting, jointing, testing, fitting complete in all respect (1.25" dia)		300.00	Rft		
f	Providing and faxing GI Socket 1" dia		4.00	No,s		
g	Providing and faxing GI Elbow 1"dia		4.00	No,s		
h	Providing and faxing GI Union 1" dia		2.00	No,s		
i	Providing and faxing GI Stopper 1" dia		3.00	No,s		
j	Providing and faxing GI Nipple 1" dia		2.00	No,s		
k	Providing and faxing GI Tee 1" dia		3.00	No,s		
l	Providing and faxing GI Elbow 1/2" dia		40.00	No,s		
m	Providing and faxing GI Nipple 1/2" dia		55.00	No,s		
n	Providing and faxing GI Union 1/2" dia		10.00	No,s		
o	Providing and faxing GI Tee 1" dia		20.00	No,s		
p	Providing and faxing GI Stopper 1/2" dia		55.00	No,s		
q	Providing and fixing of Ball valve ½"Brass quality		40.00	No,s		
r	Providing and fixing of Ball valve ¾"		32.00	No,s		
s	Providing and fixing of Ball valve 1"		32.00	No,s		
t	Providing and fixing of Ball valve 1.5		10.00	No,s		
u	Providing and fixing sluice valve of BSS quality (BS 5163) and weight Class 'B' for Cast Iron & AC pipe line (including cost of jointing material):- a) 3" (75 mm) dia of Valve		1.00	No,s		
v	Providing and fixing Non-Return / Check Valve Brass/Bronze swing type check valves on water supply pipes, conforming to BS standards, including jointing arrangement of pipes on both ends of valves; nuts, bolts etc. complete in all respects, of following internal diameters.(i) 1-1/4 "		1.00	No,s		
w	HDPE Fittings (Connection clamps for Distribution Lines) Providing and fixing of HDPE fittings clamp of best quality for distribution line from main line. The sizes of clamp should be as per the mentioned pipe dia's (including testing etc. complete in all aspects) for 40 mm dia		4.00	No,s		
x	Providing and fixing of HDPE fittings clamp of best quality for distribution line from main line. The sizes of clamp should be as per the mentioned pipe dia's (including testing etc. complete in all aspects) for 32 mm dia		4.00	No,s		
y	HDPE Pipes connectors(Coupler) Supplying and Fixing of HDPE pipes connectors of best quality (including testing etc. complete) for 40 mm dia		4.00	No,s		
z	HDPE Pipes connectors(Coupler) Supplying and Fixing of HDPE pipes connectors of best quality (including testing etc. complete) for 32 mm dia		4.00	No,s		
26	uPVC and UPVC Pipe					
a	uPVC Soil, Waste and vent pipes conforming to ISO:3633 type "B" or BS-4514/5255 class "A" ,including imported rubber ring/solvent cement fittings, jointing, cutting, and breaking concrete/masonry and then making it good, applying painting, cleaning and testing etc. complete in all respects.(for sanitary drainage) : 2" dia		13.00	Rft		
b	uPVC Soil, Waste and vent pipes conforming to ISO:3633 type "B" or BS-4514/5255 class "A",including imported rubber ring/solvent cement fittings, jointing, cutting, and breaking concrete/masonry and then making it good, applying painting, cleaning and testing etc. complete in all respects.(for sanitary drainage) : 1-1/2" dia		13.00	Rft		

S.No	Items & Specification	Item Brand	Quantity	Unit	Unit Rate	Total Amount
c	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 3" Nominal Pipe Size (NPS)		26.00	Rft		
d	Providing, laying, cutting, jointing, testing and disinfecting UPVC pressure pipeline in trenches (conforming to BS 3505 manufactured) jointed with socket, elbow, tee, bend and plug bend etc.manufactured by the respective manufacturer complete as per specifications UPVC Pressure Pipes Class B (6 Bar) except excavation. 4" Nominal Pipe Size (NPS)		13.00	Rft		
27	Sprinkler					
a	Supplying and fixing of high-quality Sprinkler System for Nursery Farm, consisting of good quality impact or 360 rotary sprinklers made of UV-resistant engineering plastic or brass, mounted on G.I. stand post of suitable height (not less than 2 feet above ground level). Each nursery tray shall be provided with three (03) sprinklers ensuring uniform water distribution and coverage. The system shall include all necessary G.I. pipes, elbows, sockets, tees, clamps, adaptors, couplings, control valves, and connecting accessories for complete installation. The sprinklers shall have an adjustable spray pattern and discharge rate, suitable for fine irrigation and misting in nursery applications. All materials and workmanship shall be of approved standard and make, ensuring leak-proof connections and corrosion resistance.		96	No's		
28	Electrification					
a	Providing & fixing of PVC conduit for surface wiring (dura duct) upto 1" including all charges for nail screws etc complete		50.00	Rft		
b	Providing & Wiring of main & sub-main in 2 single core PVC insulated & sheathed cable : 3/0.029		150.00	Rft		
c	Providing & Wiring of light/fan/call-bell point in 3/0.029 PVC insulated		4.00	No's		
d	Providing & Wiring of light point in 3/0.029 PVC insulated bare cable in PVC pipe recessed in wall comp		4.00	No's		
e	Wiring of 2/3-pin 5-Amp plug point in 3/0.029 PVC insulated & sheathed cable.		5.00	No's		
f	S/F of Energy savors 12 watts completed in All respect		4.00	No's		
g	S/F of Ceiling fan Size: 48"/COPPER		2.00	No's		
h	Supply and installation of wall-mounted dust & weatherproof control panel powder-coated. MCB (6–10 Amp) – as per load Magnetic Contactor (AC-3 duty, suitable for 1 HP motor) Thermal Overload Relay (adjustable, motor protection) Capacitor (for single-phase motor, if required) Start / Stop Push Buttons Indicator Lights (Red, Green, Yellow) Volt Meter (optional) Complete internal copper wiring with proper ferrules, lugs, and numbering		1.00	Job		
i	Providing and laying of PVC insulated copper conductor cables Size: 2.5 mm ² (minimum) or as per load calculation Type: 3-core cable (Phase, Neutral, Earth)		50.00	Rft		
j	Supply and Erection twin core PVC insulated & sheathed copper conductor 250/440 V grade cable : 7/0.029"		50.00	Rft		
29	Soakage Pit					
a	Soakage Pit (6'dia x 15' deep) and filled up 6' with 2nd class brick pieces		1.00	Each		
30	Grating on 9"x9" drain					

S.No	Items & Specification	Item Brand	Quantity	Unit	Unit Rate	Total Amount
a	Providign and fixing of frame MS square pipe 1.5"x1" having 18 gauge and bracing square pipe 1"x1" having 18 guage @ 2" c/c and in center of frame square pipe 1.5"x1" having 18 gauge.		255.00	Sft		
31	Development of 8" borehole					
a	Conducting Elec: Resistivity survey of the area and furnishing its reports		1.00	No		
b	Drilling of Bore holes for tube well in all types of soil and soft rock except hard rock from ground level upto 328 ft depth (0m to 100m), including sinking, collection of 100 % corings and withdrawing of pipe, complete as per specifications.: Dia of Bore 8" (200 mm) i/d		200.00	Rft		
c	Providing and installing PVC Strainer BSS Class "C" of approved make \ quality in tubewell bore hole, including socket, special sockets, studs etc. complete as per specification:- 6" Nominal Pipe Size (NPS) (150mm)		39.00	Rft		
d	Providing and installing PVC blind pipe BSS Class "C" in Tube Well Bore Hole including Sockets and Solvents and jointing with strainer etc. complete : 6" Nominal Pipe Size (NPS) (150 mm)		161.00	Rft		
e	Shrouding with graded pack 3/8" to 1/8" around T/W in bore hole.		200.00	Ft		
g	Providing and installing PVC Bottom End Cap (Blind Cap) of approved quality for 6" (150 mm) tubewell casing/strainer, complete in all respects."		1.00	No		
h	and all necessary accessories including sockets, special sockets, centralizers, studs, and top led cap, complete in all respects as per specification."		1.00	Job		
i	Test & develop tubewell of size 6" i/d & above continuously : Upto 1.5 cusecs discharge		24.00	Hrs		
j	Supply & Installation, testing and commissioning of Submersible Pump (ISO - 9906 Certified) coupled with Submersible rewind-able Electric Motor with AC winding and all accessories like Motor Control Unit (equipped with UV/OV, dry run protection device, surge protection, phase reverse indicator) Complete in all accessories including NRV, Pressure Gauge, Sluice valve except column pipe and power cable for discharge less than or equal to 3000 iGPH and output capacity up to 1 WHP (As per Approved Technical Specifications)		1.00	Hrs		
32	Roof Treatment of existing building					
a	Roof Treatment of composite solution of Plastic of paris, white cement and glue		10000.00	No		
33	Sign Board					
a	Providing and installation of Sign Board size of 4'X3' internal size using 18gauge steel sheet , 16 gauge MS pipe 1.5" dia as in frame of size 4.5' x 3.5' & 5' height foots with cross angel iron double strips of 1 feet length, writing of given data double side with IR logo) and minimum 6x numbers of wall chalking of given data with IR logo complete 5' X 8' size on the near by wall with paint or as directed by Engineer.		1.00	No		
Grand Total Inclusive of All Govt. Applicable Taxes with Transportation and Installation						