

Annex A Supply of Material, Installation of 60 No's Community Portable Multi-Stage Water Filtration Units at District Sohbatpur & Usta Muhammad BLN						
Sr	Item Description	Unit	Quantity	Brand Offered	Unit Rate PKR	Amount PKR
1	Structural frame: Supply, fabrication and installation of Stainless Steel (SS-304) structural frame fabricated from minimum 1.5" × 1.5" square stainless-steel tube, minimum 16 SWG, complete with cutting, welding, grinding, polishing, base plates, anchor bolts, nuts & fasteners, suitable for outdoor installation. Frame shall be corrosion resistant and capable of supporting complete filtration unit. complete in all respect	Set	1			
2	Manual Hand Crank Wheel: with Gear Assembly + Shaft + Bearings. Manual Hand Crank Assembly complete with heavy-duty hand wheel, reduction gear assembly, stainless steel shaft, pedestal bearings, mounting brackets and coupling. The assembly shall provide smooth manual operation and be capable of continuous field use under rural conditions.	Set	1			
3	Mechanical Rotary Pump / Centrifugal Unit Water Pump (manual/mechanical linked): Mechanical Rotary/Centrifugal Water Pump manually operated or mechanically linked, self-priming where applicable, corrosion-resistant body, minimum discharge capacity 25–40 LPM (or as per approved design), complete with coupling, fittings and mounting accessories. Preferred Brands: KSB, Pedrollo, Shimage, Leo or approved equivalent.	No	1			
4	UF / Cartridge Filter Housing (20") Transparent / PVC - with housing. Transparent Cartridge/UF Filter Housing suitable for 20" filter cartridges, heavy-duty food-grade polypropylene/PVC construction, minimum working pressure 6–8 bar, complete with wall bracket, wrench, O-rings and inlet/outlet connections. Preferred Brands: Pentair, Atlas Filtri, Aqua, PurePro or approved equivalent.	No	1			
5	Filter Cartridges: Membrane Set Cartridge / UF Filter Set - with housing - three in each set. UF Membrane/Cartridge Filter Set, complete set comprising three (03) filter cartridges (Sediment + Carbon + UF Membrane or as per approved filtration design), compatible with supplied filter housing, food-grade material, suitable for potable water treatment. Preferred Brands: Pentair, Vontron, Aqua, PurePro or approved equivalent.	Set	2			
6	Supply and installation of heavy-duty inline sediment pre-filter (spin-down/Y-type) manufactured from engineering-grade polymer or equivalent corrosion-resistant material, complete with washable stainless steel filter screen (typically 40–100 micron), threaded connections, drain/flush valve and all fittings. The unit shall be suitable for continuous outdoor operation and designed to protect the pump and downstream filtration components by removing sand, silt and suspended particles.	No	1			
7	PVC / UPVC Pipes, Nipples, Elbows, Valves: Supply of uPVC/PVC pressure pipes and fittings, including elbows, tees, sockets, reducers, unions, nipples, ball valves, non-return valves and all accessories, conforming to PS/ISO standards, pressure rating minimum PN-10/PN-16, solvent welded/threaded as required. Preferred Brands: Popular, Dadex, Beta, Master or approved equivalent.	Job	1			
8	Suction Pipe: from Source about 200 RFT & Delivery Hose Pipes Flexible Hose Pipe about 20 RFT. Supply and installation of Flexible Suction Hose 200 RFT with reinforced construction suitable for raw water intake, complete with foot valve and strainer where required, along with 20 RFT delivery hose, including all clamps, connectors and fittings. Hose shall be UV resistant and suitable for outdoor operation. Preferred Brands: Tiger, Kanaflex or approved equivalent.	Job	1			
9	Nuts, Bolts, Clamps, Rubber Pads Gear / Pulley / Chain Drive: Supply of all galvanized/stainless steel nuts, bolts, washers, clamps, U-clamps, rubber gaskets, seals and miscellaneous fixing accessories, complete in all respects for proper installation of filtration system.	Job	1			
10	Operation & Maintenance Kit: 1. UF Membrane as per required in set 1 no. 2. Cartridge Filters - 9 No 3. O & M Kit with Bag includes - Socket Wrench, Monkey Wrench, Cutter, Plas tool. Operation & Maintenance Kit including replacement UF membrane(s), minimum 09 replacement cartridge filters, adjustable wrench, socket wrench set, pipe cutter, pliers, PTFE tape, lubricants, sealing materials and heavy-duty carrying bag, complete for routine maintenance of filtration unit.)	Set	1			
11	Concrete Pads / Footing foundation base. Construction of Reinforced Cement Concrete (RCC) foundation pad using minimum 3000 psi (20 MPa) concrete, including excavation, PCC where required, reinforcement, anchor bolts, curing and finishing, complete for supporting filtration unit.	Job	1			
12	visibility: Supply, printing and installation of project visibility signboard, size 18" × 12", fabricated from 3 mm ACP or 18 SWG MS sheet with reflective vinyl printing and UV-resistant lamination, complete with stainless steel fasteners and fixing accessories. Artwork shall be as approved by the engineer in charge.	No	1			
Total Amount for One Unit Inclusive of All Govt Applicable Taxes Transportation, Labour, Deliveries, Loading/ Off loading and Installation						
Grand Total for 60 Units Inclusive of All Govt Applicable Taxes Transportation, Labour, Deliveries, Loading/ Off loading and Installation						