

Annex-A Supply of Material, Construction of a room, installation of an RO filtration unit including drilling and solarization GBHS Lundi Saidan khas, UC Lundi Saidan, Rajanpur						
S/No.	Activities Description/Specification	Unit	Quantity	Brand Offered	Unit Rate	Amount
A	Room Construction & RO Filtration unit					
1	Excavation in foundation of room, drainage line, and water pipe line of different dia in all kind of soil including soft soil, hard rock, shingle/gravel etc. For details see the drawings.	Cft	256.00			
2	Providing and laying Plan cement concrete including shuttering, maxing, placing, compacting, finishing and curing up to two weeks (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 foundation complete in all respect & as per drawing. Required crushing strength must be not less than 1800 psi.	Cft	116.50			
3	First class burnt brick masonry in 1:4 cement sand mortar , comprising 9" including curing upto one week, masonry work must be good finished, bricks must be 4.5" x 9" x 3" complete in all respects as in foundation and Super structures. For details see the drawings in Annex. Required crushing strength must be not less than 1800 psi.	Cft	1214.64			
4	Providing and laying/pouring damp proof course (DPC) 1:2:4 ratio including shuttering, curing up to 1 week, compacting, maxing (maxing must be on a surface which having zero water absorption capacity like concrete floor or thick polythene sheet etc.), finishing (for good finishing polythene sheet must be used on the shuttering surface). as foundation, plinth beam, base slab etc. For details see the drawings.	Sft	38.25			
5	Providing and laying/pouring Plan cement concrete (PCC) 1:2:4 ratio including shuttering, curing up to 28 days, compacting, maxing (maxing must be on a surface which having zero water absorption capacity like concrete floor or thick polythene sheet etc.), finishing (for good finishing polythene sheet must be used on the shuttering surface). as in plinth protection etc. For details see the drawings. Required crushing strength must be not less than 3000 psi.	CFT	119.61			
6	Provision and fixing of good quality RCC precast slab as in slab of filtration plant with minimum 3 girders including filling of joints with CSM 1:3. slab on water collection area shall be included.	Sft	324.00			
7	Providing and Laying HDPE pipe PN-12.5 PE-100 of 1.5" diameter with connection clamp including connection, excavation (8"x8") and refilling complete.	RFT	50.00			
8	Providing and spreading of Double layer Polythene sheet having 0.6mm thickness over slab	Sft	182.25			
9	Providing and laying of Earth filling over Polythene sheet 3" th: i/c watering ramming complete	Cft	45.56			
10	Providing and laying Mosaic including rough cement plaster surface as a base in 1:4 CSM 1/2" upto 50' height as in slab of filter room, parapet wall etc. complete with good finishing and smooth edges.	Sft	144.00			
11	Providing and Laying of P.C Plaster ½" thick (1:4) up to 20' height.	Sft	576.00			
12	providing and laying of P.C pointing struck joint on wall up to 20: height (1:3)	sft	580.50			
13	Providing & fixing of good quality China tiles on water collection areas (8"x10") , top (12"x12") and Skirting (12"x6")	Sft	196.00			
14	Providing and laying of Sand/Gravel filling under floor	Cft	72.00			
15	Providing and laying 2" thick Plan cement concrete divided in to glass panels including shuttering, maxing, placing, compacting, finishing and curing up to two weeks (nominal mix ration 1:2:4, maxing must be on a surface which having zero water absorption capacity like concrete floor or thick polythene sheet etc.) (the crush must be well graded, free from mud and dust and the sand will be fine & clear from mud/dust) as in Floor of filter rooms including dismantling of the existing concrete compete in all respect or as directed by incharge engineer. Required crushing strength must be not less than 3000 psi.	sft	144.00			
16	Providing and laying Three (3) coats of good quality distempering as in internal surface of filter plant house, preparation of surface, arrangement of shuttering and good finishing complete. 3 coats of white cement shall be applied before distempering.	sft	801.00			

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17	Providing and laying Three (3) coats of weather shield as in external surface of filtration plant room including, preparation of surface and arrangement of shuttering complete. 3 coats of white cement shall be applied prior weather shield.	Sft	702.00			
18	Providing and Fixing steel Doors of 18 gauge thick sheet and angle iron frame 2" x 2" x 0.25", size 4' x 7', three (3) coats of good quality paint with lock arrangement and other associated activities complete.	Sft	28.00			
19	Providing & fixing of 3" dia uPVC rain water down pipe, with shove ,bend ,tee & clamp etc.	Rft	13.00			
20	Providing and fixing Service Cable (7/52) for Main line to Water Filtration Plant	Rft	100.00			
21	Internal electrification complete as specified in p.v.c pipe complete in all respect. Including 4 energy saver (2 inside the room and 2 out side of the room , 4"x4" pvc electric box, 3/0.029 wire as per requirements etc.	Job	1.00			
22	Providing and Fixing CP bib-cock, heavy type : 1/2" with all accessories including 1/2" PPRC pipe.	No	6.00			
23	Providing and Installation of Reverse Osmosis Filtration Plant with stain less steel frame as per WHO standard on the existing drinking water having 1600-2500TDS, for minimum 3000 people daily drinking water including pre and post testing and commissioning/functionalizing. Capacity/ discharge should not less than 240-270GPH,including water collection steel /GI IIL pipe ,2" dia 10 Rft with socket welded, set complete with 20 steel taps 1/2" dia Installation ,connection from plant to discharge area. Requirement as per Annex-A-1.	Job	1.00			
24	Providing and installing mild steel (MS) safety grill from MS square bars of minimum 12 mm diameter (or 12x12 mm) arranged in approved pattern with MS flat frame of 40x6 mm or equivalent, including necessary intermediate members, welding, grinding, and finishing complete.	Sft	72.00			
25	Providing, fabricating, and fixing mild steel (MS) windows made from MS sections such as angle, tee, or hollow sections of approved size, with 5mm thick transparent glass & Mesh.(Sizes: W1: 3'x3') including grill on outer face.	Sft	9.00			
26	Providing and fixing galvanized double strand reverse twist barbed wire fencing made of 12 SWG (2.50 mm) GI line wire with 14 SWG (2.00 mm) barbs spaced at 75–100 mm intervals, having heavy hot-dip zinc coating, fixed on steel/angle iron posts with 5–7 horizontal strands at 200–300 mm vertical spacing, including binding wire, GI staples, tensioning with turnbuckles where required, complete with all material	RFT	980.00			
27	Providing and installation of Sign Board size (4'X3') using 18 gauge steel sheet , painted MS square pipe of 1.5" of 18 gauge, as in frame & foots with cross angle iron double strips of 1 feet length, 6 feet total Height of sign Board, writing of given data double sides with IR logo.	Job	1.00			
Sub Total A						
B	Solarization					
1	Solar PANEL CANADIAN					
	Supplying and installation of Solar Panel, warranty as per company policy. (580/585* 18) or as per required for DC submersible pump 7.5hp. must have clear anodized aluminium with Anti Reflection cover glass including fixing Earthing system all accessories and installation complete in all respect.	No's	12.00			
2	Solar panel mounting structure/ Customised STANDS					
	Solar panel mounting structure (Solar Stand) Made with (16 SWG Angle Iron), 3 Inch Circular lengths(14 Guage), 2x1.5 INCH LENGTHS(16 Guage), PLATES 6x6, PCS. PLATES 4INCH CIRCULAR PCS, ANGLE PATTI UPTO FEET, KONDAY PCS, RAWAL BOLT PCS, LABOURING Maximum Height 10 feet. complete in all respect including installation and fixing their leg with PCC.	job	1.00			
3	DC Cable					
	6MM, pure Copper, Tin Coated, Heat proof, Efficient in avoiding line losses Including jointing, cutting, fixing complete in all respect.	Coil	3			
4	DB BOX WITH ALL PROTECTORS					

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	DC breaker 2 pole 100amp, AC Breaker 3pole 100amp,Including jointing, cutting, fixing complete in all respect.	job	1			
5	Hard Ware					
	Rawal Bolt, Rawal plug, PVC pipe, Sorted Duct patti, Hook, Elbow, Joint, socket, Nut & Qablay, Screw ETC Including fixing welding.	job	1			
6	AC Wire 4 CORE					
	7/64, pure Silver, Heat proof, Fine PVC,	Yard	60			
7	VFD inverter (10KW)					
	Supply, installation, testing, and commissioning of solar-compatible VFD inverter (10KW 3-phase output) suitable for 3 HP submersible pump and RO plant with inbuilt protections, MPPT, and soft start features.	No's	1			
Sub Total B						
C	Boring and Loring					
1	Bore Hole					
	Drilling of Bore holes for tube well/pressure pump in all types of soil except hard rock from ground level upto 250 ft depth depth, including sinking , drilling, complete 8" dia bore.Use sanitary seals to prevent vertical leakage from brackish/saline layers.	Rft	250.00			
2	Shrouding					
	Providing and Lying of Shrouding material (Crushed stones of size 1/8") around the casing pipe.	Cft	104.38			
3	Casing pipe					
	Providing and installation of 6" dia upvc casing pipe (6-inch Diameter: 6.0mm Thickness and 6 KG weight per meter).	Rft	168.00			
4	Filter pipe					
	Providing and installation of Filter pipe (6" dia upvc filter pipe class B (6.0-inch Diameter: 6.0mm Thickness and 6 KG weight per meter).	Rft	72.00			
5	Delivery Pipe					
	Providing and installation of upvc 3" Dia with FLUNCH.	Rft	100.00			
6	Submersible pump					
	Supplying, installing and commissioning of 3 HP submersible pump set, complete with motor and pump, suitable for 3-phase power supply, capable of delivering required discharge and head as per site conditions. , complete set, with power cable, rope, power controller, Bore Cover, starter board with DC electric wire etc (complete system including all accessories required with installation).	job	1.00			
Sub Total C						
Grand Total (A+B+C) Inclusive of All Govt applicable Taxes, Labour, Transportation, Loading/Unloading and Installation						