

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Phase-I, Tehsil Liaqatpur, District Rahim Yar Khan

Multi-village Scheme-17,Multi-village Scheme-18,Multi-village Scheme-19,Tehsil Liaqatpur, District Rahim Yar Khan

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

Main Summary

Sr. No.	Description	Amount (PKR)
1	Water Supply Scheme	0
2	Sanitation (Covered Drain) Scheme	0
3	Street Soling and Tuff Pavers	0
4	ESMP Cost	0
5	Employer / Engineer's Facilities	0
	Total Cost (1+2+3+4+5)	0
	PRA 5%	0
	Total Cost	0
	Cost in Million	0.00

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Cost Summary

Sr. No.	Description	Amount (PKR)
1	Water Supply Scheme	
1.1	Boring and Conversion into Tube-well (4-Nos)	0
1.2	Construction of Pump House (5-Nos)	0
1.3	Providing and fixing of Pumping Machinery including Hypo-Chlorinator & Allied Work	0
1.4	Electrification for Tube well Pump Room (5-Nos)	0
1.5	Boundary Wall of Solar System (5- Nos)	0
1.6	Gurad Room With Control Panel Room Toilet including Civil & Plumbing Works / Electrical Works (4-Nos)	0
1.7	Laying of Pipe Network (Rising Main, Distribution Pipe line & Water Connection) - 304,895 ft	0
1.8	Construction of Valve Chamber (128 No.)	0
1.9	Construction of Stand Post / LLR including Civil & Plumbing Works / Electrical Works (40-Nos)	0
1.10	Ground Water Tank (10,000 Gallon) (1-Nos)	0
1.11	Over Head Water Tank (10,000 gallons) 1-Nos	0
	Total	0

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1.1 Engineer's Estimate for Boring and Conversion into Tube-well 3 Nos

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-23, It-2a(i)	Direct Rotary/ Reverse Rotary drilling of bore for tubewells, in all types of soil except shingle, gravel and rock: a) from ground level to 250 ft. (75 m) below ground level: i) 15" to 18" (375 to 450 mm) i/d	Rft	680.00		
2	Ch-23, It-5	Furnishing sample of water from bore hole.	Set	8.00		
3	Ch-23, It-10	Providing and installing Fiber glass Reinforced Polypropylene (FRP) blank pipe of specified wall thickness having slot size of 0.9 mm to 1.10 mm in Tubewell bore hole i/c the cost of male / female coupling with Nylone Strip, studs complete in all respect as approved and directed by the Engineer Incharge.				
		vi) 10"dia (6.35mm thickness)	Rft	480.00		
4	Ch-23, It-9	Providing and installing Fiberglass Reinforced Polypropylene (FRP) strainer of specified wall thickness having slot size of 0.9 mm to 1.10 mm in Tubewell borehole i/c the cost of male/female coupling with Nylone Strip, studs complete in all respect as approved and directed by the Engineer Incharge.				
		v) 10" inch dia (6.35 mm thickness)	Rft	160.00		
5	Ch-23, It-10v	Providing and installing Fiber glass Reinforced Polypropylene (FRP) bail plug of specified wall thickness having slot size of 0.9 mm to 1.10 mm in Tubewell bore hole i/c the cost of male / female coupling with Nylone Strip, studs complete in all respect as approved and directed by the Engineer Incharge.				
		vi) 10"dia (6.35mm thickness)	Rft	40.00		
6	Ch-23, It-17	Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3 mm), around tubewell in bore hole.	Cft	833.74		
7	Ch-23, It-13(a)	Providing and installing P.V.C. blind pipe, B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete. 3" i/d (75 mm)	Rft	480.00		
8	NS	Chemical, Physical and Arsenic Analysis of water from approved Water Testing Lab.	Each	8.00		
9	NS	Providing / fixing M.S Centralizer.	Each	12.00		
10	Ch-23, It-31	Providing & mixing Bentonite clay / powder have swelling factor of 1200% for lining /seal and plug earthen boreholes / ponds in the specified ratio conforming to IS:6186 for stabilization of soil as specified by the designer etc complete in all respect	Per Kg	48.35		
11	NS	A supply well is provided to store water required for the drilling operations of the tubewell bore. This ensures continuous water availability during boring. The work includes complete drilling of the tubewell bore using rotary/reverse rotary methods, along with installation of M.S. pipes, strainers, pump, and engine. All activities are carried out completely in all respects	Each	4.00		
12	NS	Geophysical logging of bore (self potential resistivity Both short normal and Gama) complete in all respect.	Job	4.00		
13	Ch-23, It-16i	Testing and developing of tubewell of size 6" (150 mm) i/d and above continuously. i) up to 1.5 cs. discharge	Hrs.	288.00		
Total - Cost 4 Nos of Tube well						0

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1.2 Engineer's Estimate for Construction of Pump House (5-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-3, It-21-1a(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'up to one chain (30 m) and lift up to 5 ft. (1.5 m) 1) By Manual a) Depth up to 5ft (1.5m) ii) in ordinary soil.	1000cft	1.90		
2	Ch-6, It-3(i)	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1: 6: 12	100Cft	6.35		
3	Ch-7, It-4i	Pacca brick work in foundation and plinth in: i) Cement, sand mortar: Ratio 1:5	100Cft	20.48		
4	Ch-6, It-37b(ii)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating: (b) with 2 coats of bitumen: ii) 2" thick (50 mm)	100Sft	3.23		
5	Ch-3, It-15i	Filling, watering and ramming earth under floors: i) With surplus earth from foundation, etc.	1000Cft	4.75		
6	Ch-6, It-2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100Cft	2.99		
7	Ch-10, It-3	Supplying and filling sand under floor; or plugging in wells.	100Cft	0.60		
8	Ch-10, It-16(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels for floor:- (g) 2½"(62 mm) thick	100Sft	10.09		
9	Ch-7, It-5i	Pacca brick work in ground floor: i) Cement, sand mortar: Ratio 1:5	100Cft	29.51		
10	Ch-11, It-8 (b)	Cement plaster 1:3 up to 20' (6.00 m) height: b) 1/2" (13 mm) thick	100Sft	37.59		
11	Ch-11, It-12(b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height . b) 1:3	100Sft	5.30		
12	Ch-11, It-26a(iii)	White washing: a) new surface: iii) three coats	100Sft	37.59		
13	Ch-11, It-18a	Cement pointing struck joints, on walls, up to 20' (6.00 m) height:- a) ratio 1:2	100Sft	29.43		
14	Ch-6, It-6a(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	917.03		

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1.2 Engineer's Estimate for Construction of Pump House (5-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
15	Ch-6, It-6c(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): (c) Reinforced cement concrete in Pile cap, slab of rafts / strip foundation, base slab of column and retaining walls; etc. and footing beams, other structural members other than those mentioned in 6(a-d) above not requiring form work (i.e. horizontal shuttering) complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	67.50		
16	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (i) (Grade-60)	100Kg	28.23		
17	Ch-25, It-62(ii)	P/F Iron door comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge.(ii) Double Leaf	Sft	140.00		
18	Ch-12, It-15 a	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- a) M.S. angle iron 1½"x 1½"x ¼" (40x40x6 mm) welded with M.S. flat 2"x ¼" (50 mm x 6 mm)	Sft	220.00		
19	Ch-25, It-42 a	Providing and fixing steel windows using M.S. sheet (16 SWG) moulded tubular pipe 1½"x1½" (40x40mm) for frame and 1¼"x1¼" (30x30mm) for leaves including M.S. square bars ¼"x¼" (6x6 mm) welded around each panel of frame, 5 mm thick glass panes fixed with double M.S. square tubular pipe 3/8"x3/8" (10x10mm) (22 SWG) beading with U' shaped rubber lining, brass fitting, holdfast, including painting three coats complete in all respects. a) For openable panels fixed with wire gauze 24 SWG, 12x12 mesh and glass panes ¼" (6 mm) thick.	Sft	80.00		
20	NS	Providing and fixing MS cover fabricated from 3/8" thick MS plate (size 2.75' x 2.75') with stiffeners and embedded MS angle frame,Angle iron 1"-1/4" X 1"-1/4" X 1/8" including cutting, welding, grinding, red oxide primer and enamel paint, complete in all respect	Each	5.00		

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1.2 Engineer's Estimate for Construction of Pump House (5-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
21	Ch-9, It-15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	5.00		
22	Ch-9, It-14	Khassi pernalas in cement, sand mortar 1:2, 12" (300mm) outside width finished smooth with a floating coat of neat cement.	Rft	62.50		
23	Ch-9, It-16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	5.00		
24	Ch-9, It-5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. Per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100Sft	5.00		
25	Ch-25, It-10	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, but excluding erection in position.	100Kg	9.25		
26	Ch-1, It-1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajr used in concrete items) (Lead 230 Km)	Cft	1,098.42		
27	Ch-13, It-33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect a) New Surface i) 1st Coat & 2nd Coat	100Sft	4.66		
28	Ch-23, It-52	Providing and fixing Chain Pulley Block of 5 ton capacity with 5 meter length of chain, as per required specifications complete in all respect and as approved by the Engineer Incharge.	Each	5.00		
Total - Cost 05 Nos of Tube well Pump Room (4 Nos Tube well + 01 Nos GST)						0

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1.3 Engineer's Estimate for Providing and fixing of Pumping Machinery including Hypo-Chlorinator & Allied Work

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	NS	Supplying, installing, testing and commissioning of submersible water supply pump set of approved make, complete in all respects as per specifications and direction of the Engineer Incharge. The pump set shall have the following specifications: Flow: 0.50 Cusec Head: 250 ft Setting Depth: 70 ft Motor Rating: 25 HP- 3×400V, 50 Hz, 2 Pole, Submersible IP68 motor, Insulation class F Motor:25 KW/20HP/2 Pole Speed:2900 RPM Motor Control Unit (MCU): MCU (Motor Control Unit) consisting of MCCB, Over/Under voltage relay, Phase reversal relay, Volt meter, Ampere meter, EVR, Volt Selector Switch, Ampere Selector Switch, Current Transformer,Over load relay, indicating lights for all above relays, on/off push buttons. VFD Motor Control Unit with Dry running Protection relay , Circuit Breaker, DC SPD, AC SPD, DC Change Over Switch, Auto Start Stop with Any input, Self-diagnostic and Self Protection, Dry Run Protection, Digital Controls with Complete Protective Functions, Ground Fault Monitoring, AC Short Circuit Protection, Under/Over Voltage and Over/Current Protection, Reverse current Blocking, –10 to 40 °C, Remote Monitoring and MPPT, Water Level Detection, Pressure Level Detection, A/M Selector Switch, etc. All contained in lockable cabinet complete in all respects. Accessoires: Cable Termination Kit, MS Flanged Riser Pipes 70 ft 4", Schedule 40, Sluice Valve, Non-return Valve, MS Nipple, MS Bend, Bore cover plate, Installation clamp, Gaskets, Nut & Bolts, Drop Cable 3×10 mm² 90 ft length with cable connector & clamps, Electrode and Electrode wire 90 ft and other necessary fittings	Each	1		
2	NS	Supplying, installing, testing and commissioning of submersible water supply pump set of approved make, complete in all respects as per specifications and direction of the Engineer Incharge. The pump set shall have the following specifications: Flow: 0.30 Cusec Head: 250 ft Setting Depth: 70 ft Motor Rating: 10 HP- 3×400V, 50 Hz, 2 Pole, Submersible IP68 motor, Insulation class F Motor:10 KW/20HP/2 Pole Speed:2900 RPM Motor Control Unit (MCU): MCU (Motor Control Unit) consisting of MCCB, Over/Under voltage relay, Phase reversal relay, Volt meter, Ampere meter, EVR, Volt Selector Switch, Ampere Selector Switch, Current Transformer,Over load relay, indicating lights for all above relays, on/off push buttons. VFD Motor Control Unit with Dry running Protection relay , Circuit Breaker, DC SPD, AC SPD, DC Change Over Switch, Auto Start Stop with Any input, Self-diagnostic and Self Protection, Dry Run Protection, Digital Controls with Complete Protective Functions, Ground Fault Monitoring, AC Short Circuit Protection, Under/Over Voltage and Over/Current Protection, Reverse current Blocking, –10 to 40 °C, Remote Monitoring and MPPT, Water Level Detection, Pressure Level Detection, A/M Selector Switch, etc. All contained in lockable cabinet complete in all respects. Accessoires: Cable Termination Kit, MS Flanged Riser Pipes 70 ft 3", Schedule 40, Sluice Valve, Non-return Valve, MS Nipple, MS Bend, Bore cover plate, Installation clamp, Gaskets, Nut & Bolts, Drop Cable 3×6 mm² 90 ft length with cable connector & clamps, Electrode and Electrode wire 90 ft and other necessary fittings	Each	1		

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1.3 Engineer's Estimate for Providing and fixing of Pumping Machinery including Hypo-Chlorinator & Allied Work

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
3	NS	Supplying, installing, testing and commissioning of submersible water supply pump set of approved make, complete in all respects as per specifications and direction of the Engineer Incharge. The pump set shall have the following specifications: Flow: 0.30 Cusec Head: 150 ft Setting Depth: 70 ft Motor Rating: 15 HP -3×400V, 50 Hz, 2 Pole, Submersible IP68 motor, Insulation class F Motor:15 KW/20HP/2 Pole Speed:2900 RPM Motor Control Unit (MCU): MCU (Motor Control Unit) consisting of MCCB, Over/Under voltage relay, Phase reversal relay, Volt meter, Ampere meter, EVR, Volt Selector Switch, Ampere Selector Switch, Current Transformer,Over load relay, indicating lights for all above relays, on/off push buttons. VFD Motor Control Unit with Dry running Protection relay , Circuit Breaker, DC SPD, AC SPD, DC Change Over Switch, Auto Start Stop with Any input, Self-diagnostic and Self Protection, Dry Run Protection, Digital Controls with Complete Protective Functions, Ground Fault Monitoring, AC Short Circuit Protection, Under/Over Voltage and Over/Current Protection, Reverse current Blocking, -10 to 40 °C, Remote Monitoring and MPPT, Water Level Detection, Pressure Level Detection, A/M Selector Switch, etc. All contained in lockable cabinet complete in all respects. Accessoires: Cable Termination Kit, MS Flanged Riser Pipes 70 ft 3", Schedule 40, Sluice Valve, Non-return Valve, MS Nipple, MS Bend, Bore cover plate, Installation clamp, Gaskets, Nut & Bolts, Drop Cable 3×6 mm² 90 ft length with cable connector & clamps, Electrode and Electrode wire 90 ft and other necessary fittings	Each	1		
4	NS	Supplying, installing, testing and commissioning of submersible water supply pump set of approved make, complete in all respects as per specifications and direction of the Engineer Incharge. The pump set shall have the following specifications: Flow: 0.60 Cusec Head: 150 ft Setting Depth: 70 ft Motor Rating: 15 HP -3×400V, 50 Hz, 2 Pole, Submersible IP68 motor, Insulation class F Motor:15 KW/20HP/2 Pole Speed:2900 RPM Motor Control Unit (MCU): MCU (Motor Control Unit) consisting of MCCB, Over/Under voltage relay, Phase reversal relay, Volt meter, Ampere meter, EVR, Volt Selector Switch, Ampere Selector Switch, Current Transformer,Over load relay, indicating lights for all above relays, on/off push buttons. VFD Motor Control Unit with Dry running Protection relay , Circuit Breaker, DC SPD, AC SPD, DC Change Over Switch, Auto Start Stop with Any input, Self-diagnostic and Self Protection, Dry Run Protection, Digital Controls with Complete Protective Functions, Ground Fault Monitoring, AC Short Circuit Protection, Under/Over Voltage and Over/Current Protection, Reverse current Blocking, -10 to 40 °C, Remote Monitoring and MPPT, Water Level Detection, Pressure Level Detection, A/M Selector Switch, etc. All contained in lockable cabinet complete in all respects. Accessoires: Cable Termination Kit, MS Flanged Riser Pipes 70 ft 3", Schedule 40, Sluice Valve, Non-return Valve, MS Nipple, MS Bend, Bore cover plate, Installation clamp, Gaskets, Nut & Bolts, Drop Cable 3×6 mm² 90 ft length with cable connector & clamps, Electrode and Electrode wire 90 ft and other necessary fittings	Each	1		

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1.3 Engineer's Estimate for Providing and fixing of Pumping Machinery including Hypo-Chlorinator & Allied Work

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
5	NS	Supplying, installing, testing and commissioning of centrifugal pump water supply pump set of approved make, complete in all respects as per specifications and direction of the Engineer Incharge. The pump set shall have the following specifications: Centrifugal Pump Set: Flow: 0.50 Cusec Head: 200 ft Motor:25 HP (IP55/F) -2Pole Speed:2900 RPM Motor Control Unit (MCU): MCU (Motor Control Unit) consisting of MCCB,Over/Under voltage relay, Phase reversal relay, volt meter, ampere meter, EVR, Volt Selector Switch, Ampere Selector Switch, Current Transformer, indicating lights for all above relays, on/off push buttons. VFD Motor Control Unit with Dry running relay, Circuit Breaker, DC SPD, AC SPD, DC Change Over Switch, Auto Start Stop with Any input, Self diagnostic and Self Protection, Dry Run Protection, Digital Controls with Complete Protective Functions, Ground Fault Monitoring, AC Short Circuit Protection, Under / Over Voltage and Over/ Current Protection, Reverse current Blocking, -10 to 40 Degree Celcius, Remote Monitoring and MPPT, water Level Detection, Pressure Level Detection, A/M Selector Switch,etc. All contained in lockable cabinet complete in all respect	Each	1		
6	NS	Supply and fixing of hypo-chlorinator Dosing Pump: Modal:AKL800NH0000 Flow: 10L/Hour Pressure 10 Bar Stroke: 300/1' Consumption 40W Power Supply: 100-240VAC Seals: FPM Head Material: PVDF Suction Discharge 4mm*6mm Tamk: 70 Liter Material HDPE.	Each	5.00		
7	Ch-23, It-12c	Providing and installing M.S. blind pipe socketed/welded joint, M.S. reducer (where necessary), in tubewell bore hole, including jointing/welding with strainer, etc. complete: c) 4" i/d, 1/8" (100 mm i/d 3 mm) thick	Rft	350.00		
8	NS	Providing and fixing Electromagnetic Flow meter of specified dia as per Delivery Size in Pump House complete in all respect. Typically of Following Specification: Line Size: 6", DN150 Flanged, RF ANSI 150# Flow range: 32 ~ 320 m³/h Liner Material: PTFE Electrode Material: 316L Stainless Steel Body Material: Carbon Steel Power Supply: 220 VAC Output: 4 ~ 20mA Protection Class: IP68 Accuracy: Class –II (OIML R49/ISO4064) ISO 9001 Certified manufacturer	Each	5.00		
9	Ch-23, It-42	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK), Scon (Pakistan) or approved equivalent manufacturer, i/c the cost of all accessories flanges,nut/bolt and gasket where required complete in all respect as approved and directed by the Engineer Incharge. (b) Flange Ended Ductile Iron Valve (viii) 4" dia	Each	2.00		
Total - Cost of Tube well Pumping Machinery including Hypo-Chlorinator & Allied Work						0

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1.4 Engineer's Estimate for Electrification for Tube well Pump Room (5-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-24, It-(9(a-ii)+3(iii)/24+16(i)/24+ 34(ii)/24)	Wiring of light or fan point from switch to the point with 3 x 1.5 sqmm PVC insulated single core cables in PVC pipes concealed in walls, columns and slabs including accessories, PVC box, 10 Amp. gang switch 1 or 2 way as required, one for each light or fan and installed as in specifications.	Each	6.00		
2	Ch-24, It-(9(a-iii)+3(iii))	Circuit wiring from MCBs board to gang switches board with 3 x 2.5 sqmm PVC insulated single core cables in appropriate size PVC conduit.	Each	2.00		
3	Ch-24, It-(9(a-iii)+3(iii))	The same as item No. 1.1 but from one light point to another light point.	Each	1.00		
4	Ch-24, It-(9(a-iv)+16(ii)+38(i)+3(iii))	5 Amp 2/3 pin universal flush mounting switch socket unit away from switch board and wired with 3 x 4 sqmm single core cable from nearest circuit available in PVC concealed conduits or trunking including all conduit accessories as required complete in all respect.	Each	2.00		
5	Ch-24, It-(9(a-iii)+3(iii))	The same as item No.1.4 but wiring from one socket to another socket with 3 x 2.5 sqmm single core cable	Each	1.00		
6	Ch-24, It-(9(a-v)+3(iii)+38(ii)+16(ii))	The same as item No. 1.4 but wiring of 15/20A, 3-pin flush mounting switch socket unit wired with 3 x 6 sqmm single core cable wires starting from D.B.	Each	1.00		
7	Ch-24, It-(12 - C(Viii))	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable-25 mm (19/0.052")	Rft	100.00		
8	Ch-24, It-8(c-vi)	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only)450/750 volts, PVC insulated: 10 mm sq (7/0.052")	Rft	100.00		
9	Ch-24, It-8(c-vii)	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only)450/750 volts, PVC insulated: 16 mm sq (7/0.064")	Rft	100.00		
10	Ch-24, It-97(b-iii)	Providing and fixing cable tray with straight flange fabricated with perforated G.I. Sheet of specified guage,size and depth duly supported on painted brackets of MS angle iron of 1-1/2"x1-1/2"x3/16" and MS patti of 1-1/2"x3/16" size @ 3 ft C/C, hangers i/c the cost of hardwares as approved and directed by the Engineer Incharge.(ii) 6"x3"	Rft	25.00		
11	RA -14	Light Fixture Type LED Batten Ceiling/surface mounted, 18W complete in all respect with allied accessories make Philips, GE,Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	4.00		
12	RA -15	Wall bracket Light Fixture Type LED 12W energy saving lamp with holder and complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	2.00		

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1.4 Engineer's Estimate for Electrification for Tube well Pump Room (5-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
13	Ch-24, It-103	Providing and fixing Pakistan Energy Label NEECA approved Copper winded wall bracket Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.(ii) 18 " dia	Each	2.00		
14	Ch-24, It-102(a-ii)	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge. (a) Plastic body (ii) 12 " dia	Each	1.00		
15	Ch-24, It-3(a-vii)	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches: 100 mm dia (Class-B)	Rft.	100.00		
16	Ch-24, It-90(a-i)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessed/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Neutral & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately). 1 No. 30 Amps (Adj.) MCCB TP, RC=25kA, Icu=100%Ics 2 Nos. outgoing 20A, MCB, SP, RC=10 kA 4 Nos. outgoing 10A, MCB, SP, RC=10 kA 3 Nos. Spare 10/20A, MCB, SP, RC=10 kA Indication lights, push buttons, digital ammeter with selector switch, digital voltmeter with selector switch, Panel box SWG 16 powder coated RAL colour 7032, IP class 44 and with all accessories.	Each	1.00		

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1.4 Engineer's Estimate for Electrification for Tube well Pump Room (5-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
17	Ch-24, It-92(a)	P/F floor mounted ATS (Auto Transfer Switch) panel board , fabricarted with 14S WG M.S sheet (Indoor Type) duly painted with 100 microns powder coated paint in approved colour , front access ,extendable,insulation class of 600 volts IP-44, incoming & outgoing connections from bottom with flexible copper cable suitable for 415 VAC, 3-phase 4 wire, 50 HZ TPN&E system having rated service, short circuit breaking capacity at 400VAC conforming to IEC-947-2 to accomodate given no of circuit components, instruments & accessories,assembled & wired with Electrolytic Copper bus bars at 50 deg and cables duly cleaned down to bare shining metal phosphate, manual change Over i/c the cost of Lock, Indication lights, Brass glands, Netural & Earth bar, thimbles, Digital volt meter/ Amp meter, Selector switch, Current transformers, Controles, Channels, Copper bus bars of specified capacity ,Relays, Door Earthing, complete in all respects as approved and directed by the Engineer Incharge. (Breakers wil be paid additionally) LV Switchgear Panel/Main Panel Board of 14 SWG, IP class 54/44 & RAL 7032 including I/C and O/G following electrical items, foundation/base frame with all installation and operational accessories as per site requirements, as per tender specifications and drawings and as directed by the Engineer.MPB 01 No. 50 Amps TP (adj.) MCCB, RC= 25 kA, Icu=100%Ics 01 No. VSS (07 position) 01 No. 0-600 Volts AC DIGITAL Voltmeter 03 Nos. 50/5 Amps Current Transformers 01 No. ASS (R-Y-B-OFF) 01 No. 0-50 Amps AC DIGITAL Ammeter 06 Nos. RYB and ON OFF TRIP LED indication lights 14 SWG steel sheet Panel RAL 7032, IP= 54/44 and all other accessories, OUTGOING 01 No. 25 Amp MCCB TP, RC=25kA , Icu=100%Ics (For 10 HP Motor) "01 No. 25 Amp MCCB TP, (Adj.) RC=25kA, Icu=100%Ics (For Staff Building)" 01 No. 32 Amp MCB DP, RC=10kA (For DB-OHWT) 01 No. 32 Amp MCCB TP, RC=25kA , Icu=100%Ics (For PFI) 01 No. (Spare) 32 Amp MCCB TP, (Adj.) RC=25kA, Icu=100%Ics 01 No. (Spare) 25 Amp MCCB TP, (Adj.) RC=25kA, Icu=100%Ics 01 No. (Space) 63 Amp., MCCB TP, (Adj.) RC=25kA, Icu=100%Ics 01 No. Panel light with limit switch 02 Nos. Exhaust fan 6" (copper) & Louver 8" sweep with thermostat relay and all accessories etc. Electrolytic copper bus bar with electrical grade PVC mountings 3 for each, nuts, bolts and washers, control MCB etc. (100 Amps. R+Y+B N, 50 Hz, 415 V, AC) All other accessories required for completion of the quality works including Cable gland and lugs etc. Contractor shall submit the genuine certificate from the manufacturer/authorized agent clear by indicating the project name make/model/rating of MCCB, MCB, magnetic contactors, terminal blocks and voltmeters/ ammeter along with warranties.	No.	1		
18	Ch-24, It-111	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	No.	1.00		
19	Ch-24, It-93(ii)	14 SWG steel sheet clad IP 54 colour RAL 7032 powder coated power factor improvement panel (PFI) including Cu busbar, heavy duty incoming and outgoing circuit breaker to capacitor, magnetic contactors, continuous digital p.f controller, on & off pushbuttons etc. complete with all components/ accessories as per specifications and drawings. PFI - 100 kVAR	No.	1.00		
Total Amount for one (01) Tube Well						0
Total Amount for (05) Tube Well +GST (Ground Surface Tank)						0

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1.5 Engineering Estimate for Boundary Wall of Solar System (5- Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-3, It-21-1a(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'up to one chain (30 m) and lift up to 5 ft. (1.5 m) 1) By Manual a) Depth up to 5ft (1.5m) ii) in ordinary soil.	1000cft	24.51		
2	Ch-6, It-3(i)	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1: 6: 12	100Cft	18.86		
3	Ch-7, It-4i	Pacca brick work in foundation and plinth in: i) Cement, sand mortar: Ratio 1:5	100Cft	88.11		
4	Ch-7, It-7i	Pacca brick work other than building upto 10ft. (3 m) height. i) cement, sand mortar: Ratio 1:5	100Cft	58.25		
5	Ch-11, It-8 (b)	Cement plaster 1:3 up to 20' (6.00 m) height: b) 1/2" (13 mm) thick	100Sft	89.52		
6	Ch-11, It-23	Priming coat of chalk under distemper	100Sft	187.32		
7	Ch-11, It-18a	Cement pointing struck joints, on walls, up to 20' (6.00 m) height:- a) ratio 1:2	100Sft	92.76		
8	Ch-13, It-33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect a) New Surface i) 1st Coat & ii) 2nd Coat	100Sft	187.32		
9	Ch-6, It-6a(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	2,479.99		
10	Ch-6, It-6c(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): (c) Reinforced cement concrete in Pile cap, slab of rafts / strip foundation, base slab of column and retaining walls; etc. and footing beams, other structural members other than those mentioned in 6(a-d) above not requiring form work (i.e. horizontal shuttering) complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	1,469.50		

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1.5 Engineering Estimate for Boundary Wall of Solar System (5- Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
11	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (i) (Grade-60)	100Kg	138.23		
12	Ch-13, It-9 (ii)	Bitumen coating to plastered or cement concrete surface;-I 14lbs. Per 100 Sft. (6.35 Kg per Sq.m)	100Sft	35.80		
13	Ch-25, It-30	Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron frame 2"x2"x3/8"(50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm)centre to centre, with locking arrangement.	Sft	360.00		
14	Ch-13, It-5c	Painting new surface: c) Preparing surface and painting of doors and windows any type (including edges): i) priming coat. ii) each subsequent coat of paint.	100Sft	7.20		
15	RA - 06	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 198 Km)	Cft	3,475.55		
16	Ch-3, It-15ii	Filling, watering and ramming earth under floors: ii) With new earth excavated from outside,	1000Cft	40.34		
17	Ch-03 , It -17(a,b)	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m) a) upto 1/4 mile (400 m). b) for every 330 ft. (100 m) additional lead or part thereof, beyond 1/4 mile (400 m) upto one mile. (1.6 Km.)	1000 Cft	40.34		
18	Ch-10, It-4	Providing, laying, watering and ramming brick or stone ballast 1 1/2" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects.	100 Cft.	88.74		
19	Ch-10, It-43 b	Providing and laying Tuff Pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.(50% Grey / 50% Coloured) b) 60-mm thick	Per Sft	26,891.19		
20	Ch-25, It-75	Providing and fixing anti climb high security galvanized razor cut wire fencing having double sharp four U-shaped pointed 0.5 mm thick (22mmx15 mm barbs) spaced @ 33 mm c/c clad over 2.5 mm dia high tensile Core wire making coil fencing of specified diameter @ 4" c/c fixed on 2'-3" high M/S angle iron post 1 1/2"x1 1/2"x3/16"embedded in base of PCC (1:2:4) (4"x4"x9") @ 4' apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts , binding wire, painting of posts, etc. complete in all respects as pproved and directed by the Engineer incharge. (ii) 18 " diameter	Rft	1,531.00		

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1.5 Engineering Estimate for Boundary Wall of Solar System (5- Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
21	Ch-3, It-9 (i)	Earthwork excavation in irrigation channels, drains, etc. to designed section, grades and profiles, excavated material disposed-off and dressed within 100 ft. (30 m) lead: (Drain-Type-I) i) Ordinary	1000 Cft	6.88		
22	Ch-6, It-3 (d)	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth: (d) Ratio 1: 6:12	100 Cft	6.79		
23	Ch-7, It-4 (i)	Pacca brick work in foundation and plinth in: Cement, sand mortar: Ratio 1:3	100 Cft	27.31		
24	Ch -20 It - 3b(ii).	Pacca brick on edge, laid in reimbursement, in cement, sand mortar, on sides of drains and on other works where required. All joints to be completely filled and struck flush: b) Ratio 1:5	100Sft	27.14		
25	Ch-.20 It - 6 (a)	Constructing Punjab Standard Drains. of cement concrete 1:2 ½ :5, with cement concrete bedding ratio 1:6:12, complete, laid to lines, grades, slopes and shapes, rendering exposed surface of concrete with 1:1 cement, sand mortar, ¼" (6 mm) thick, as per Engineer's drawing (excluding excavation): a) Type I	Per Rft	3,619.00		
Total - 1.5 Each						0

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1.6 Engineering Estimate Gurad Room With Control Panel Room Toilet including Civil & Plumbing Works / Electrical Works (4-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-3, It-21-1a(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'up to one chain (30 m) and lift up to 5 ft. (1.5 m) 1) By Manual a) Depth up to 5ft (1.5m) ii) in ordinary soil.	1000cft	2.10		
2	Ch-6, It-3(i)	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1: 6: 12	100Cft	3.23		
3	Ch-7, It-4i	Pacca brick work in foundation and plinth in: i) Cement, sand mortar: Ratio 1:5	100Cft	12.57		
4	Ch-6, It-37b(ii)	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating: (b) with 2 coats of bitumen: ii) 2" thick (50 mm)	100Sft	1.92		
5	Ch-6, It-39	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (b) with 2 coats of bitumen:- ii) Ratio 1:3 b) ¾ " thick (20mm)	100Sft	1.68		
6	Ch-7, It-5i	Pacca brick work in ground floor: i) Cement, sand mortar: Ratio 1:5	100Cft	21.39		
7	Ch-6, It-2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100Cft	2.11		
8	Ch-10, It-16(e)	Providing and laying topping of cement concrete 1:2:4, including surface finishing and dividing in panels for floor:- (g) 2½"(62 mm) thick	100Sft	6.20		
9	Ch-11, It-8 (b)	Cement plaster 1:3 up to 20' (6.00 m) height: b) 1/2" (13 mm) thick	100Sft	29.82		
10	Ch-11, It-12(b)	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height . b) 1:3	100Sft	12.10		
11	Ch-11, It-26a(iii)	White washing: a) new surface: iii) three coats	100Sft	53.32		
12	Ch-11, It-18a	Cement pointing struck joints, on walls, up to 20' (6.00 m) height:- a) ratio 1:2	100Sft	19.38		
13	Ch-6, It-6a(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): (a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	697.51		
14	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (i) (Grade-60)	100Kg	33.36		

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1.6 Engineering Estimate Gurad Room With Control Panel Room Toilet including Civil & Plumbing Works / Electrical Works (4-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
15	Ch-25, It-62(ii)	P/F Iron door comprising of specified leaves made of 1-1/4" x1-1/4" x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge.(ii) Double Leaf	Sft	252.00		
16	Ch-12, It-15 a	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- a) M.S. angle iron 1 1/2"x 1 1/2"x 1/4" (40x40x6 mm) welded with M.S. flat 2"x 1/4" (50 mm x 6 mm)	Sft	444.00		
17	Ch-25, It-42 a	Providing and fixing steel windows using M.S. sheet (16 SWG) moulded tubular pipe 1 1/2"x1 1/2" (40x40mm) for frame and 1 1/4"x1 1/4" (30x30mm) for leaves including M.S. square bars 1/4"x1/4" (6x6 mm) welded around each panel of frame, 5 mm thick glass panes fixed with double M.S. square tubular pipe 3/8"x3/8" (10x10mm) (22 SWG) beading with U' shaped rubber lining, brass fitting, holdfast, including painting three coats complete in all respects. a) For openable panels fixed with wire gauze 24 SWG, 12x12 mesh and glass panes 1/4" (6 mm) thick.	Sft	96.00		
18	Ch-9, It-15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	4.00		
19	Ch-9, It-14	Khassi pernalas in cement, sand mortar 1:2, 12" (300mm) outside width finished smooth with a floating coat of neat cement.	Rft	50.00		
20	Ch-9, It-16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4 1/2" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	4.00		
21	Ch-9, It-5	Single layer of tiles 9"x4 1/2"x1 1/2" (225x113x40 mm) laid over 4" (100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. Per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100Sft	12.10		
22	RA - 06	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajr used in concrete items) (Lead 230 Km)	Cft	755.51		
23	Ch-13, It-33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect a) New Surface i) 1st Coat & 2nd Coat	100Sft	34.77		
26	Ch-10, It-45(i) - 17.60 deduction for matt finishes	Porcelain Tile Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/ bond over 3/4" thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. a) Full body Glazed tiles (i) 300 mm x 600 mm	Per Sft.	111.000		

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1.6 Engineering Estimate Gurad Room With Control Panel Room Toilet including Civil & Plumbing Works / Electrical Works (4-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
27	Ch-10, It-36(i) - 18.90 deduction for matt finishes	Providing and laying superb quality Porcelain glazed tiles of Master/ Stile brand or approved equivalent manufacturer, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2) cement plaster i/c the cost of matching sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. a) Full body Matt tiles	Per Sft.	400.00		
28	RA -20	Construction of House Connection Chamber (2' x 2'), complete in all respects as per drawings, specifications & instructions of the Engineer. The unit rate includes but not limited to excavation, required compaction, crushed stone, PCC (1:6:12), PCC (1:2:4), brick masonry in 1:3 C/S mortar, 1/2" thick 1:4 C/S plaster on inner & Outer sides, RCC Slab 4" Thick, uPVC 6" Pipe, finishing in the internal and external surface of brick masonry etc.	Each	4.00		
		Plumbing Works				
29	Ch-19, It-37	Providing and fixing cas tiron soil pipe with cement caulked joint: :ii) 4" i.d	Per ft.	40.00		
30	Ch-19, It-36	Providing and fitting, 4" Gully Trap ,including cement concrete, cost of PVC grating (6"x6") and masonary chamber (12" x 12")	Each	4.00		
31	Ch-19, It-27	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (½")	Each	4.00		
32	Ch-19, It-4	Providing and fitting glazed earthen ware water closet,squatter type (Orisa pattern), combined with foot rest.ii) Coloured	Each	4.00		
33	Ch-19, It-13	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity,including bracket set,copper connection, etc. complete.ii) coloured	Each	4.00		
34	Ch-19, It-7	Providing and fixing 1.5cm (½") dia connection, including check nuts, etc.: -i) plastic rubber connection	No	4.00		
35	Ch-19, It-47	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ SWV pipe, Dadex / Popular / Beta or approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS4514/BS5255-EN1329 including the cost of specials and Solvents complete in all respects, as per drawings & specifications and or as approved and directed by the Engineer Incharge. (vi) 160 mm	Rft	600.00		
36	Ch-19, It-49	Providing, fixing ,testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of Dadex/ Popular/ Beta or equivalent, conforming to code EN-1329 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge a) P-Trap (i) 4" dia	No	4.00		
37	Ch-19, It-51	Providing and hoisting vertical/ horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	Per Gallon	2000.000		
38	Ch-23, It-33	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex /Popular/Beta or approved equivalent manufacturer, with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal/External Diameters mentioned).				
		b) PN-20 pipe				
		ii) 25 mm	Rft	500.0		
		iv) 40 mm	Rft	240.0		

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1.6 Engineering Estimate**Gurad Room With Control Panel Room Toilet including Civil & Plumbing Works / Electrical Works (4-Nos)**

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
39	Ch-23, It-42	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK), Scon (Pakistan) or approved equivalent manufacturer, i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge.				
		(a) Brass Threaded Valves				
		(iii) 1" dia	Each	4.0		
		(iv) 1-1/2" dia	Each	4.0		
40	Ch-23, It-45	Supply & installation of heavy duty Brass PN-16 air Vents of specified sizeprovided at thehighest points(PipeRisers) to expel air as approved and directed by the Engineer Incharge				
		(a) Automatic				
		(iii) 1" Dia	Each	8.0		
41	Ch-23, It-32	P/F Ejector Pump of specified Suction andDelivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges,necessary wire,PVC pipes etc complete in all respect as approved and directed by the Engineer Incharge. G-II (1-1/4"x3/4") with 1 HP Electric Motor, 21-Mtr Suction and 21 M delivery head	Each	4.000		
42	Ch-23, It-1	Boring for tubewell in all types of soil exceptshingle and rock, from ground level to 100 ft.(30 m) depth, including sinking and withdrawing of casing pipe, complete:- d) 6" (150 mm) i/d	Per Rft of Bore	260.0		
43	Ch-23, It-13	Providing and installing P.V.C. blind pipe,B.S.S. Class`D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc.complete. b) 4" i/d (100 mm)	Per Rft	120.0		
44	Ch-23, It-8	Providing and installing, P.V.C. strainer B.S.S.Class`D', in tubewell bore hole,including sockets and solvents, etc. complete:-b) 4" i/d (100 mm)	Per Rft	480.0		
45	Ch-23, It-9	Providing and installing P.V.C Bail /End plug in tube well borehole b) B.S.S. Class `D' (v) 4" i/d (100mm)	Each	4.0		
46	Ch-23, It-17	Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3 mm), around tubewell in bore hole.	Cft	175.89		

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1.6 Engineering Estimate**Gurad Room With Control Panel Room Toilet including Civil & Plumbing Works / Electrical Works (4-Nos)**

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
		Electrical Works				
47	Ch-24, It-3 (a)	Supply and erection of PVC pipe for wiring including inspection boxes, pull boxes, hooks, and repairing surface, etc., complete with all specials.Recessed in walls i/c making jharries iii) 25 mm i/d	Rft	528.000		
48	Ch-24, It-8 (a)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaid PVC pipes/M.S. conduit/G.I. pipe/ wooden strip batten/wooden casing and capping/ trenches, etc. (rate for cable only):-				
		i) 3/0.74 mm (3/0.029") (P+N+E) for Point Wiring	Rft	440.000		
		iii) 7/0.74 mm (7/0.029") (P+N+E) for Circuit Wiring	Rft	80.000		
49	Ch-24, It-103	Providing and fixing Pakistan Energy Label NEECA approved Copper winded wall bracket Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.i) 18" Sweep dia	Each	4.000		
50	Ch-24, It-105	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge.a) One Way Gang Switch (Small) (ii) 02 Gang	Each	8.000		
51	Ch-24, It-106 (i)	Supply, installation, testing & commissioning of 16 SWG Sheet steel powder coated back boxes with earth terminal, recessed in wall, includingaccessories, complete in all respect as per specifications and as approved by Engineer Small 3"x3"	Each	32.000		
Total Amount for (04) Guard Room						0

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1.7 Engineer's Estimate for Laying of Pipe Network (Rising Main, Distribution Pipe line & Water Connection) - 304,895 ft

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-4, It -19 (c)	Dismantling cement concrete 1:2:4 plain.	100Cft	18.75		
2	Ch-4, It -29	Dismantling brick or flagged flooring without concrete foundation.	100 Sft	300.00		
3	Ch-4, It -45	Dismantling and removing road metalling	100Cft	87.53		
4	Ch-21, It -8	Restoration of brick pavement on edge, over laid service line, with 2" (50 mm) sand cushion under soling	100 Sft	300.00		
5	Ch-6, It-5-(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) (f) Ratio 1: 2: 4	100 Cft	18.75		
6	Ch-21, It -10 (a)	Restoration of metalled road, on laid service line, including compaction a) Carpetted road, with 2" (50 mm) carpet and 10" depth of stone metal for sub-base and base	100 Sft	75.00		
7	Ch-3, It-46	Excavation of trenches in all kinds of soil, except cutting 1000 Cft. rock, for watersupply pipelines/electric cables upto 5 ft. (1.5 m) depth from ground level, including backfilling, trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000Cft	2,427.03		
8	Ch-3, It-24(a)	Compaction of earthwork (soft, ordinary or hard soil) :-	1000 Cft	2,172.64		
9	Ch-23, It-30	Providing ,laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe conforming to standard ISO4427, PS3580, Beta /Dadex /Popular/ IIL or approved equivalent manufacturer,including the cost of specials ,in trenches, as approved & directed by the engineer incharge, complete in all respects a) PN-6 (SDR-26)				
		(3 1/2" -90 mm dia)	Per Rft	24,379.30		
		(4" -110 mm dia)	Per Rft	6,961.90		
		(6" -150 mm dia)	Per Rft	3,124.00		
10	Ch-23, It-30	Providing ,laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe conforming to standard ISO4427, PS3580, Beta /Dadex /Popular/ IIL or approved equivalent manufacturer,including the cost of specials ,in trenches, as approved & directed by the engineer incharge, complete in all respects PN-8 (SDR-21)-				
		(3 1/2" -90 mm dia)	Per Rft	127,473.50		
		(4" - 110 mm dia)	Per Rft	46,897.40		
		(6" -160 mm dia)	Per Rft	60,564.90		
		(8"-200 mm dia)	Per Rft	25,749.90		
		(10" - 250 mm dia)	Per Rft	3,454.00		
		(12.5" - 315 mm dia)	Per Rft	0.00		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

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1.7 Engineer's Estimate for Laying of Pipe Network (Rising Main, Distribution Pipe line & Water Connection) - 304,895 ft

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
11	Ch-21, It-3(a-2)	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-20, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring, cutting pipes where necessary, testing, etc., complete. ii) 380 mm (15") i/d	Per Rft	3,000.00		
12	Ch-6, It-5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	100 Cft	157.52		
13	RA - 06	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 230 Km)	Cft	1,788.61		
14	Ch-21, It-22	Providing and laying sand under and around the Water Supply pipe, including leveling, manual compaction, complete in all respect.	100Cft	2,141.87		
15	RA-09	Providing & installation of PPR-C water supply connection pipe including . 25mm 1/2" inner dia PPR-C pipe 4ft / height from plinth level of the building, HDPE saddle clamp, brass with foam & nuts, ferrule, Female Elbow, Ball Valve,Tee, Mountain Hock ,End Cap,Reducer 32 x25mm double action complete in all respect. complete in all respect as per drawings, specifications and directed by the Engineer.	Each	233.00		
16	Ch-23, It-30 (b-1)	Providing, laying, cutting, jointing ,testing and disinfecting Hig h Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex / Popular/ IIL or equivalent including the cost o f specials, in trenches,as approved & directed by the engineer incharge, complete in all respects. b) PN-8 (SDR-21)				
		25 (mm)	Per Rft	2,796.00		
		32 (mm)	Per Rft	3,495.00		
17	RA-11	Providing & fixing single jet dry type 15mm water meter along with water meter house connection Complete in all respect as per Technical Specifications.	Each	466.00		
18	Ch-23, It-12	Providing and installing M.S. blind pipe socketed/welded joint, M.S. reducer (where necessary), in tubewell bore hole, including jointing/welding with strainer, etc. complete: 8" i/d, 3/16" (200 mm i/d 5 mm) thick	Per Rft	1,000.00		
Total - 1.7						-

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1.9 Engineer's Estimate for Construction of Stand Post / LLR including Civil & Plumbing Works / Electrical Works (40-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-3, It-21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'up to one chain (30 m) and lift up to 5 ft. (1.5 m) 1) By Manual a) Depth up to 5ft (1.5m) ii) in ordinary soil.	1000 Cft	32.255		
2	Ch-3, It-15(ii)	Earth Filling in ordinary soil lead up 30m with compaction upto required 90% modified AATSHO dry density complete in all respects as approved by the Engineer Incharge.	1000Cft	26.840		
3	Ch-6, It-3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1: 4: 8	100Cft	145.742		
4	Ch-6, It-5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)				
		(I) Ratio 1: 4: 8	100 Cft	23.021		
		(f) Ratio 1: 2: 4	100 Cft	47.847		
5	Ch-7, It-4	Brick work in Foundation Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100Cft	282.304		
6	Ch-7, It-5	Brick work in Super Structure Pacca brick work in ground floor :- i) Cement, sand mortar :- Ratio 1:4	100Cft	409.194		
7	Ch-6, It-37	Providing and laying damp proof course of cement concrete 1:2:4 (using cement, sand and shingle), including bitumen coating: b) with 2 coats of bitumen: ii) 2" thick	100Sft	68.340		
8	Ch-6, It-39	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:- (b) with 2 coats of bitumen:-ii) Ratio 1:3 b) ¾ " thick (20mm)	100Sft	32.984		
9	Ch-11, It-9	Cement Plaster Cement plaster 1:4 upto 20' (6.00 m) height:- c) 1/2" (13 mm) thick	100Sft	283.400		
10	Ch-11, It-18	Cement pointing struck joint, on walls upto 20' height. b) ratio 1:3	100Sft	580.496		
11	Ch-11, It-12	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height . b) 1:3	100Sft	78.400		
12	Ch-9, It-5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. Per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100Sft	96.100		
13	Ch-6, It- 6	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (3) Type C (nominal mix 1: 2: 4)	Per Cft	7144.550		
14	Ch-6, It-12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (c) Deformed bars (Grade-60)	100 Kg	244.088		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaquatpur & Rojhan)

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1.9 Engineer's Estimate for Construction of Stand Post / LLR including Civil & Plumbing Works / Electrical Works (40-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
16	Ch-10, It-45(i) - 17.60 deduction for matt finishes	Porcelain Tile Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/ bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. a) Full body Glazed tiles (i) 300 mm x 600 mm	Per Sft.	10500.000		
17	Ch-10, It-36(i) - 18.90 deduction for matt finishes	Providing and laying superb quality Porcelain glazed tiles of Master/ Stile brand or approved equivalent manufacturer, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2) cement plaster i/c the cost of matching sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge. a) Full body Matt tiles	Per Sft.	6080.000		
18	Ch-10, It-43	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with and in joints i/c finishing to require slope. Complete in all respect. (50% Grey / 50% Colored) b)50-mm thick	Per Sft.	4230.000		
19	Ch-11, It-23+24	Preparing surface and painting with Distemper 3coats	100Sft	340.12		
20	Ch-25, It-31	Making and fixing steel grated door with 1/16" thick (1.5mm) sheeting, including angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre, with locking arrangement.	Per Sft	1,960.00		
21	Ch-25, It-42	Providing and fixing steel windows using M.S. sheet (16 SWG) moulded tubular pipe 1 1/2"x1 1/2" (40x40mm) for frame and 1 1/4"x1 1/4" (30x30mm) for leaves including M.S. square bars 1/4"x1/4" (6x6 mm) welded around each panel of frame, 5 mm thick glass panes fixed with double M.S. square tubular pipe 3/8"x3/8" (10x10mm) (22 SWG) beading with U' shaped rubber lining, brass fitting, holdfast, including painting three coats complete in all respects. a) For openable panels fixed with wire gauze 24 SWG, 12x12 mesh and glass panes 1/4" (6 mm) thick.	Sft	420.00		
22	Ch-12, It-15 a	Providing and fixing mild steel chowkat of doors, windows, C.window, etc. including holdfast, making and threading holes for hinges, etc. complete:- a) M.S. angle iron 1 1/2"x 1 1/2"x 1/4" (40x40x6 mm) welded with M.S. flat 2"x 1/4" (50 mm x 6 mm)	Per Sft	2,380.00		
23	Ch-9, It-15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	40.00		
24	Ch-1, It-1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 230 Km)	Cft	8574.168		
25	Ch-25, It-32	Making and fixing grating in opening, including fixing at site with flat iron 2"x3/8" (50x10 mm) and 3/4" (19 mm) square bars, at 4" (100 mm) centre to centre.	Per Sft	960.000		
26	Ch-13, It-5	Painting new surface:-Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards braces, etc.) and in similar open work Three Coats including priming coat.	100 Sft	58.528		

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1.9 Engineer's Estimate for Construction of Stand Post / LLR including Civil & Plumbing Works / Electrical Works (40-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
27	Ch-26, It-44	Supply and Erection of Car Parking Shed consisting of 3 mm thick fiber glass sheet roof (3-layers) fixed / riveted on moulded curved frame of M.S box pipe 1-1/2"x1-1/2"16-SWG supported on trusses of MS angle iron 1-1/2"x1-1/2"x3/16" all around duly supported on M.S sheet 6"x6"x1/4" welded on GI pipe post (Medium Quality) of specified diameter embeded in P:C:C (1:2:4) i/c the cost of excavation,cutting straightening assembling, bending as per design, welding / grinding of joints and painting three coats complete in all respect as approved and directed by the Engineer Incharge. (ii) 3" dia GI pipe Supports	Per Sft	3920.000		
28	N.S	MS ladder including painting as per drawings.	Rft	560.00		
		Electrical Works				
29	Ch-24, It-3	Supply and erection of PVC pipe for wiring including inspection boxes, pull boxes, hooks, and repairing surface, etc., complete with all specials.Recessed in walls i/c making jharries iii) 25 mm i/d	Rft	1760.000		
30	Ch-24, It-8	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaidd PVC pipes/M.S. conduit/G.I. pipe/ wooden strip batten/wooden casing and capping/ trenches, etc. (rate for cable only):-				
		i) 3/0.74 mm (3/0.029") (P+N+E) for Point Wiring	Rft	5280.000		
		iii) 7/0.74 mm (7/0.029") (P+N+E) for Circuit Wiring	Rft	4400.000		
31	Ch-24, It-105	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider, screws complete as approved and directed by the Engineer Incharge.a) One Way Gang Switch (Small) (ii) 02 Gang	Each	80.000		
32	Ch-24, It-106	Supply, installation, testing & commissioning of 16 SWG Sheet steel powder coated back boxes with earth terminal, recessed in wall, includingaccessories, complete in all respect as per specifications and as approved by Engineer Small 3"x3"	Each	80.000		
33	Ch-24, It-65	Supply and erection of pole mounted street light, holders,shade and glass, etc., for fitting 125/250 watts mercury vapour lamp (excluding cost of lamps):Philips design	Each	80.000		
34	Ch-24, It-66	Supply and fitting of mercury vapour lamp, complete with choke set. 125 watt lamp	Each	80.000		
35	N.S	Light Fixture Type LED Batten Ceiling/surface mounted, 18W complete in all respect with allied accessories make Philips, GE,Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	160.00		
36	N.S	Wall bracket Light Fixture Type LED 12W energy saving lamp with holder and complete in all respect with allied accessories make Philips, GE, Pierlite or approved equivalent. The fitting shall be approved by the Engineer.	Each	80.00		
		Plumbing Work				
37	Ch-9,it-20-a	Cast iron rain water downpipe fixed in position, excluding heads and shoes, but including painting and clamps, etc:- 4" dia (100 mm) cast iron down pipe	Rft	1320.00		
38	Ch-9,it-21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting	Each	160.00		
39	Ch-9,it-22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	Each	160.00		

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1.10 Engineer's Estimate for Ground Water Tank (10,000 Gallon) (1-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-3, It-21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'up to one chain (30 m) and lift up to 5 ft. (1.5 m) 2)b) By Excavator a) Depth up to 5ft (1.5m) ii) in ordinary soil.	1000Cft	3.75		
2	Ch-8, It-4+RA-06	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. i) Pit run or bed run gravel. Granular filling Note: *The quoted rate for granular material shall be deemed to include the cost of transportation from the approved quarry to the site of work.	Rft	37.50		
3	Ch-6, It-5(i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):inth:- (h) Ratio 1: 3: 6 Lean Concrete	100Cft	3.61		
		Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):				
4	Ch-6, It-6a	(a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (2) Type B (nominal mix 1: 1½: 3)	Cft	306.19		
5	Ch-6, It-6b	(b) Reinforced cement concrete in retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Formwork on both sides) , complete in all respects: (i) Upto 9" thick (Avg) (2) Type B (nominal mix 1:1-1/2:3)	Cft	1,008.00		
6	Ch-6, It-6c	c) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a-d) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (2) Type B (nominal mix 1:1-1/2:3)	Cft	859.50		
7	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (i) (Grade-60)	100Kg	63.35		

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1.10 Engineer's Estimate for Ground Water Tank (10,000 Gallon) (1-Nos)

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
8	Ch-1,item-1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajr used in concrete items) (Lead 230 Km)	Cft	2,159.81		
9	Ch-6, It-12b(i)	Providing and embedding 10" (250mm) wide PVC water stopper in expansion joints of RCC structures (Retaining walls, water tanks, Slabs) complete in all respect:ii) 10 mm thick	Rft	74.00		
10	Ch-13, It-9	Bitumen coating to plastered or cement concrete surface:- i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100Sft	7.80		
11	NS	Providing and fixing MS cover fabricated from 3/8" thick MS plate (size 2.75' x 2.75') with stiffeners and embedded MS angle frame, including cutting, welding, grinding, red oxide primer and enamel paint, complete in all respect	Each	2.00		
12	Ch-21, It-11	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	14.00		
13	Ch-10, It-35 (b)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (b) using white cement : ii) ½"(13 mm) thick Tank internal mosaic dado	100 Sft	7.00		
14	Ch-10, It-22 (a)	13/8"(35 mm) thick mosaic flooring, consisting of 3/8"(10 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick flooring of 1:2:4 cement concrete including rubbing and polishing complete :- (a) using grey cement Tank internal mosaic Flooring	100 Sft	3.00		
15	Ch-23, It-18	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035/4622) in trenches, including cost of materials, such as lead, yarn, etc.complete in all respects:- a) With Spigot and Socket Caulked Lead Joint 4" Dia (Vent Pipe)	Per Rft	9.00		
16	NS	MS ladder including painting as per drawings.	Rft	30.00		
Total						0

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaquatpur & Rojhan)

Water Supply Scheme

Multi-village Scheme-17,Multi-village Scheme-18,Multi-village Scheme-19,Tehsil Liaquatpur, District Rahim Yar Khan

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

1.11 Engineer's Estimate for Over Head Water Tank (10,000 gallons) 1-Nos

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-3, It-21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'up to one chain (30 m) and lift up to 5 ft. (1.5 m) 2) a) By Excavator a) Depth up to 5ft (1.5m) ii) in ordinary soil. b) Lift from 5ft (1.5m) to 15 ft (4.5 m):-	1000cft	8.82		
			1000Cft	11.47		
2	Ch-3, It-24	Compaction of earthwork (soft, ordinary or hard soil) :- Mixing, moistening earth to optimum moisture content in layers for compaction, etc. complete.	1000Cft	19.08		
3	Ch-6, It-5(i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8	100Cft	3.84		
4	Ch-6, It-6(a)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-((a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (2) Type B (nominal mix 1: 1½: 3) At Level 0'-20'-0"	Per Cft	900.71		
	+6/16(a)	At Level 20'-40'-0"	Per Cft	763.34		
	+6/16b	At Level 40'-50'-0"	Per Cft	313.50		
	+6/16b	At Level 50'-60'-0"	Per Cft	1,026.77		
5	Ch-6, It-6(c)	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)& (ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:- (2) Type B (nominal mix 1: 1½: 3)	100Cft	1,204.32		
6	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (b) Deformed bars (i) (Grade-60)	100Kg	206.43		
7	Ch-18, It-14	Providing and fixing G.I. pipe railing, as per standard drawing.	Per Rft of 3 rows of Pipes	298.50		
8	Ch-13, It-9	Bitumen coating to plastered or cement concrete surface:- i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 Sft	8.55		
9	Ch-6, It-32	Providing and embedding 10" (250mm) wide PVC water stopper in expansion joints of RCC structures (Retaining walls, water tanks, Slabs) complete in all respect. ii) 10" wide 10 mm thick	Rft	72.00		
10	Ch-21, It-11	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	14.00		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaquatpur & Rojhan)

Water Supply Scheme

Multi-village Scheme-17,Multi-village Scheme-18,Multi-village Scheme-19,Tehsil Liaquatpur, District Rahim Yar Khan

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

1.11 Engineer's Estimate for Over Head Water Tank (10,000 gallons) 1-Nos

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
11	Ch-10, It-22 (a)	Providing & Laying mosaic flooring consisting of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips,laid over 1"(25 mm) thick flooring of 1:2:4 cement concrete including rubbing and polishing complete with finishing :- b) 1½"(40 mm) thick mosaic flooring, consisting of ½ "(13mm) mosaic topping (ii) using white cement	100Sft	2.82		
12	Ch-10, It-35 (b)	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing: (b) using white cement : ii) ½"(13 mm) thick	100 Sft	6.39		
13	RA - 06	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajr used in concrete items) (Lead 230 Km)	Per Cft	3,539.82		
14	Ch-23, It-35 (b)	Sluice valve of B.S.S. quality and weight, Class 'B', for cast iron pipe line, and Asbestos cement pipe line (including cost of jointing material):-				
		b) 4" i/d (100 mm)	Each	2.00		
		d) 6" i/d (150 mm)	Each	2.00		
15	Ch-23, It-12	Providing and installing M.S. blind pipe socketed/welded joint, M.S. reducer (where necessary), in tubewell bore hole, including jointing/welding with strainer, etc. complete:				
		(c) 4"	Per Rft	85.00		
		(e) 6"	Per Rft	160.00		
16	Ch-23, It-18	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035/4622) in trenches, including cost of materials, such as lead, yarn, etc.complete in all respects:- a) With Spigot and Socket Caulked Lead Joint 6" Dia (Vent Pipe)	Per Rft	3.00		
17	RA - 05	Providing and fixing MS cover fabricated from 3/8" thick MS plate (size 3' x 3') with stiffeners and embedded MS angle frame, including cutting, welding, grinding, red oxide primer and enamel paint, complete in all respect	Each	1.00		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Water Supply Scheme

Multi-village Scheme-17,Multi-village Scheme-18,Multi-village Scheme-19,Tehsil Liaqatpur, District Rahim Yar Khan

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

1.11 Engineer's Estimate for Over Head Water Tank (10,000 gallons) 1-Nos

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
18	Ch-13, It-33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect: a) new surface:				
		i) 1st & 2nd coat (0'-20')	100 Sft	16.80		
	+13/41	i) 1st & 2nd coat (20'-30')	100 Sft	11.44		
	+13/41	i) 1st & 2nd coat (30'-40')	100 Sft	11.44		
	+13/41	i) 1st & 2nd coat (40'-50')	100 Sft	11.69		
	+13/41	i) 1st & 2nd coat (50'-60')	100 Sft	6.84		
19		Providing, installing, testing and commissioning Hydrostatic Level Submersible Transmitter/ Indicator for direct mounting in Over Head Reservoirs make of USA/Europe or equivalent, alongwith Level Display unit, Shielded wire of 3m complete in all respect as per instructions of the Engineer Incharge and including the following features.	Each	1.00		
20	RA-21	MS ladder including painting as per drawings.	Rft	11.00		
21	Ch-8, It-4+RA-06	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate. i) Pit run or bed run gravel. Granular filling Note: *The quoted rate for granular material shall be deemed to include the cost of transportation from the approved quarry to the site of work.	Rft	37.81		
22	Ch-13, It-25	Painting letters with shade	per letter per inch height	480.00		
23	Ch-7, It-4i	Pacca brick work in foundation and plinth in: i) Cement, sand mortar: Ratio 1:5	100Cft	4.08		
		Total Cost of each OHR				0

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Phase-I, Tehsil Liaqatpur, District Rahim Yar Khan

Sanitation Scheme

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

Cost Summary

Sr. No.	Description	Amount (PKR)
2	Sanitation Scheme	
2.1	Covered Drain	0
2.2	SepticTank- (75-Nos) & Sokage Pit- (18-Nos)	0
	Total	0

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaquatpur & Rojhan)

Phase-I, Tehsil Liaquatpur, District Rahim Yar Khan

Sanitation Scheme

Basti Malik Parvez Akhtar, Basti Kukara, Basti Ghalo, Basti Imam Bux, Basti Waryam Solangi, Basti Allah Bux/M. Murad, Basti Sadat, Jindu Pir Kamal, Chak No 3 Abbasia, Chak No 3A Colony, Chak No 140 NP, Basti Malik Allah Ditta Solangi, Basti Elahi Bux Toor, Chak No 139 NP, Basti Azmat Lar, Basti Jam kareem Bahakas, Basti Marri, Basti Lal Maha, Basti Bhattian, Basti Buraha, Basti Haji Abdur Rehman Khosa, Basti Hussain Abad, Basti Noor Muhammad, Basti Haji Kamal, Basti Ameer Bux, Basti Chak 04A, Chak No 4 Abbasia, Basti Ishaq, Khangah, Basti Sanaullah Khan, Basti Pannua, Basti Nabi, Chak No 134 NP, Chak No 135 NP, Chak No 136 NP, Basti Manzoor Ahmed Lar, Basti Malik Lal Machi, Basti Haji Mehar Ali Drig, Basti Marral, Basti Abdul Rasheed Lar, Basti Noor Din

2.1 Engineer's Estimate for Covered Drain

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-4, It -19 (c)	Dismantling cement concrete 1:2:4 plain.	100Cft	63.63		
2	Ch-6, It-5-(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate) (f) Ratio 1: 2: 4	100 Cft	161.64		
3	Ch-4, It -45	Dismantling and removing road metaling	100Cft	340.91		
4	Ch-21, It -10 (a)	Restoration of metaled road, on laid service line, including compaction				
		Carpeted Road, with 2" (50 mm) carpet and 10" depth of stone metal for sub base and base	100 Sft	142.50		
		Black Topped Road with two coats of surfacing & 10"(250 mm) depth of stone metal, for sub base & base.	100 Sft	142.50		
5	Ch-4, It -8	Dismantling storm watre drain including base concrete	100Cft	395.35		
6	Ch-3, It-46	Excavation of trenches in all kinds of soil, except cutting 1000 Cft.rock, for Sewer pipelines/electric cables upto 5 ft. (1.5 m) depth from ground level, including backfilling, trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000Cft	234.68		
7	Ch-3, It-9 (i)	Earthwork excavation in irrigation channels, drains, etc. to designed section, grades and profiles, excavated material disposed-off and dressed within 100 ft. (30 m) lead: i) Ordinary	1000 Cft	1,039.20		
8	Ch-6, It-3 (d)	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth: (d) Ratio 1: 6:12	100 Cft	769.73		
9	Ch-7, It-4 (i)	Pacca brick work in foundation and plinth in: Cement, sand mortar: Ratio 1:3	100 Cft	5,226.55		
10	Ch -20 It - 3b(ii).	Pacca brick on edge, laid in reimbursement, in cement, sand mortar, on sides of drains and on other works where required. All joints to be completely filled and struck flush: b) Ratio 1:5	100Sft	2,640.71		
11	Ch -11 It - 8	Cement plaster 1:3 upto 20' (6.00 m) height: b) ½" (13 mm) thick	100Sft	10,860.62		
12	Ch-.20 It - 6 (a)	Constructing Punjab Standard Drains. of cement concrete 1:2 ½ :5, with cement concrete bedding ratio 1:6:12, complete, laid to lines, grades, slopes and shapes, rendering exposed surface of concrete with 1:1 cement, sand mortar, ¼" (6 mm) thick, as per Engineer's drawing (excluding excavation): a) Type I	Per Rft	169,678		
13	Ch-.20 It- 6(b)	Constructing Punjab Standard Drains. of cement concrete 1:2 ½ :5, with cement concrete bedding ratio 1:6:12, complete, laid to lines, grades, slopes and shapes, rendering exposed surface of concrete with 1:1 cement, sand mortar, ¼" (6 mm) thick,(excluding excavation) as per engineer in charge. b) Type II	Per Rft	6,370		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Phase-I, Tehsil Liaqatpur, District Rahim Yar Khan

Sanitation Scheme

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2.1 Engineer's Estimate for Covered Drain

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
14	Ch-6, It-12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):				
		(a) Plain bars * For Drain Slab	100Kg	299.18		
		(c) Deformed bars (Grade-60) * For Road Crossing	100Kg	2,353.15		
15	Ch-6, It-6a(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):				
		(a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (2) Type B (nominal mix 1: 1.5: 3)	Cft	68,889.07		
16	Ch-24, It-3	Supply and erection of PVC pipe for Drain Slab Condiut complete with all respect: iii) 25 mm i/d	Per Rft	20,579.41		
17	NS	RPC Drain Cover Manufactured with 100% Recycled Plastic Composite Material, 50 mm (2") thick with clear opening size 450mm x 900mm and RPC Drain frame having with average breaking load capacity of 4 Ton . Type-I	Each	14,139.79		
18	NS	RPC Drain Cover Manufactured with 100% Recycled Plastic Composite Material, 50 mm (2") thick with clear opening size 762mm x 900mm and RPC Drain frame having with average breaking load capacity of 4 Ton. Type-II	Each	530.83		
19	NS	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Form Sahkhi Sarwar Quarry)	Cft	57,866.82		
20	NS	Construction of House Connection Chamber (2' x 2'), complete in all respects as per drawings, specifications & instructions of the Engineer. The unit rate includes but not limited to excavation, required compaction, crushed stone, PCC (1:6:12), PCC (1:2:4), brick masonry in 1:3 C/S mortar, 1/2" thick 1:4 C/S plaster on inner & Outer sides, RCC Slab 4" Thick, finishing in the internal and external surface of brick masonry etc.	Each	3,810.00		
21	Ch-19, It-47	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized Polyvinyl Chloride) Nikasi/ SWV pipe, Dadex / Popular / Betaor approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS4514/BS5255-EN1329 including the cost of specials and Solvents complete in all respects, as per drawings & specifications and or as approved and directed by the Engineer Incharge. (v) 110 mm	Rft	57,150.00		
22	Ch-21, It-22	Providing and laying sand under and around the Water Supply pipe, including leveling, manual compaction, complete in all respect.	100Cft	70.88		
Total						0

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Sanitation Scheme

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2.2 Engineer's Estimate for SepticTank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
A		Screen Chamber				
1	Ch-3, It-21-1a(ii)	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead 'up to one chain (30 m) and lift up to 5 ft. (1.5 m) 1) By Manual a) Depth up to 5ft (1.5m) ii) in ordinary soil.	1000cft	24.91		
2	Ch-6 it-5(i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	100 Cft	9.44		
3	Ch-6, It-6c(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): (c) Reinforced cement concrete in Pile cap, slab of rafts / strip foundation, base slab of column and retaining walls; etc. and footing beams, other structural members other than those mentioned in 6(a-d) above not requiring form work (i.e. horizontal shuttering) complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	2,320.31		
4	Ch-6, It-6b(3)	(b) Reinforced cement concrete in retaining / Shearwalls laid in situ or precast laid in position, or prestressed members cast in situ (Form work on both sides) , complete in all respects: (3) Type C (nominal mix 1:2:4) (i) Upto 9" thick (Avg)	Cft	3,206.25		
5	Ch-6, It-6a(3)	(a) Reinforced cement concrete in roof slab, beams,columns lintels, girders and other structural members laid I in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	140.63		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Sanitation Scheme

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2.2 Engineer's Estimate for SepticTank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
6	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (c) Deformed bars (Grade-60)	100Kg	272.02		
7	Ch-25, It-10	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, but excluding erection in position.	100Kg	117.75		
8	Ch-25, It-11	Erecting and fitting in position iron trusses at a gaining of water tanks .	100Kg	117.75		
9	Ch-13, It-9(ii)	Bitumen coating to plastered or cement concrete surface;-l 14lbs. Per 100 Sft. (6.35 Kg per Sq.m)	100Sft	57.75		
10	Ch-25, It-35	Providing and fixing terrace railing of 2" (50 mm) i/d docon pipe 16 SWG, welded with 5/8"x5/8" (16x16 mm)s quare bar 2.75 ft. (838 mm) high fixed at 5" (125 mm) centre to centre, in reinforced cement concrete slab with suitable arrangement, complete in all respects,as per design and drawing.	Per Rft	1,425.00		
11	Ch-1,it-1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Form Sahkhi Sarwar Querry)	Cft	5,882		
12	Ch-6, It-31	Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects	Rft	1,425.00		
Sub-Total (A)						0

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Sanitation Scheme

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

2.2 Engineer's Estimate for SepticTank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
B		SepticTank				
1	Ch-3, It-21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m)lift upto 5 ft (1.5m). 2) a) By Excavator ii) Ordinary soil				
		a) Lift up to 5 ft (1.5 m)	1000 Cft	118.2		
		b) Lift from 5ft (1.5m) to 15 ft (4.5 m):-	1000 Cft	128.0		
2	Ch-21, It-4	Lowering of sub-soil water table, by installation of tubewells along sewer line and pumping out water, for excavation in open cutting below sub-soil water level, concreting, curing,laying and jointing pipes, filling haunches, etc. till the completion of sewer line, including disposal of pumped out water:-) 0-5 ft. (0 to 1520 mm) below SSWL * This rate is applicable only if the water table is encountered at 5 ft during excavation; otherwise, it shall not apply	Rft	128.0		
3	Ch-6, It-5(i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8	100 Cft	61.39		
		Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
4	Ch-6, It-6	(c) Reinforced cement concrete in Pile cap, slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a-d) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-Type B (nominal mix 1: 1.5: 3)	Per Cft	17073.6		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Sanitation Scheme

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2.2 Engineer's Estimate for SepticTank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
5		(a)(ii) Reinforced cement concrete in retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast in situ (Formwork on both sides), complete in all respects:(b) Type B (nominal mix 1:1-1/2:3)(ii) More Than 9" thick (Avg)	Per Cft	37241.3		
6		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- Type B (nominal mix 1:1.5: 3)	Per Cft	11382.4		
7	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (c) Deformed bars (Grade-60)	100 Kg	2525.6		
8	Ch-1, It-1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Form Sahkhi Sarwar Quarry)	Per Cft	61004.0		
9	Ch-19, It-47	Providing,fixing,testing and commissioning of uPVC (Unplasticized PolyvinylChloride) sewerage pipe make of Dadex/Popular/Betaor approved equivalent manufacturer,plain/socket ended conforming to code EN-1401 of specified SDR(Standard Dimension Ratio)including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge. Type (SDR 34/SN-8) 6" dia 150mm	Rft	3,800.00		
10	Ch-23, It-14	Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with working pressure pipe, in trenches, including specials (PS-3051=BS-3505), complete in all 'respects:- a) Class-B (6 bar)				
		e) 8" i/d (200 mm)	Rft	2250.0		
11	Ch-13, It-9(ii)	Bitumen coating to plastered or cement concrete surface;-l 14lbs. Per 100 Sft. (6.35 Kg per Sq.m)	100Sft	415.42		
12	Ch-21, It-11	Providing and fixing 1 1/4"x1 1/4"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	each	1252.0		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Sanitation Scheme

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2.2 Engineer's Estimate for SepticTank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
13	Ch-6, It-32	Providing and embedding 10" (250mm) wide PVC water stopper in expansion joints of RCC structures (Retaining walls, water tanks, Slabs) complete in all respect. Chargeii) 10" wide 10 mm thick	Rft	5756		
14	Ch-23, It-18	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035/4622) in trenches, including cost of materials, such as lead, yarn, etc.complete in all respects:- b) With Flanged and Flanged Joints 4" Dia (Vent Pipe)	Rft	456.0		
15	NS	RPC Manhole Cover Manufactured with 100% Recycled Plastic Composite Material, 650 mm (26"dia) with clear opening size 600 mm (24" Dia) and RPC manhole frame having Dia meter 790 mm (31.1") with average breaking load capacity of 10 Ton and weight including frame of 50 kg (Minimum).	Each	152.0		
16	NS	Supplying, installing, testing and commissioning of submersible waste water pump set of approved make, complete in all respects as per specifications and direction of the Engineer Incharge. The pump set shall have the following specifications: Flow: 0.15 Cusec Head: 25-30 ft Motor Rating: 2 HP 3×420V, 50 Hz, 2 Pole, Submersible IP68 motor, Insulation class F Motor:1.5 KW/2HP/2 Pole Speed:2900 RPM Motor Control Unit (MCU): MCU (Motor Control Unit) consisting of MCCB, Over/Under voltage relay, Phase reversal relay, Volt meter, Ampere meter, EVR, Volt Selector Switch, Ampere Selector Switch, Current Transformer,Over load relay, indicating lights for all above relays, on/off push buttons. VFD Motor Control Unit with Dry running Protection relay , Circuit Breaker, DC SPD, AC SPD, DC Change Over Switch, Auto Start Stop with Any input, Self-diagnostic and Self Protection, Dry Run Protection, Digital Controls with Complete Protective Functions, Ground Fault Monitoring, AC Short Circuit Protection, Under/Over Voltage and Over/Current Protection, Reverse current Blocking, -10 to 40 °C, Remote Monitoring and MPPT, Water Level Detection, Pressure Level Detection, A/M Selector Switch, etc. All contained in lockable cabinet complete in all respects. Accessoires: Submersible Tail Cable ,G.I Lifting Chain,Duck Foot Bend, and other necessary fittings	Each	57.0		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Sanitation Scheme

Basti Malik Parvez Akhtar, Basti Kukara, Basti Ghalo, Basti Imam Bux, Basti Waryam Solangi, Basti Allah Bux/M. Murad, Basti Sadat, Jindu Pir Kamal, Chak No 3 Abbasia, Chak No 3A Colony, Chak No 140 NP, Basti Malik Allah Ditta Solangi, Basti Elahi Bux Toor, Chak No 139 NP, Basti Azmat Lar, Basti Jam kareem Bahakas, Basti Marri, Basti Lal Maha, Basti Bhattian, Basti Buraha, Basti Haji Abdur Rehman Khosa, Basti Hussain Abad, Basti Noor Muhammad, Basti Haji Kamal, Basti Ameer Bux, Basti Chak 04A, Chak No 4 Abbasia, Basti Ishaq, Khangah, Basti Sanaullah Khan, Basti Pannua, Basti Nabi, Chak No 134 NP, Chak No 135 NP, Chak No 136 NP, Basti Manzoor Ahmed Lar, Basti Malik Lal Machi, Basti Haji Mehar Ali Drig, Basti Marral, Basti Abdul Rasheed Lar, Basti Noor Din

2.2 Engineer's Estimate for Septic Tank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
17	NS	Construction of Chamber (2' x 2'), complete in all respects as per drawings, specifications & instructions of the Engineer. The unit rate includes but not limited to excavation, required compaction, crushed stone, PCC (1:6:12), PCC (1:2:4), brick masonry in 1:3 C/S mortar, 1/2" thick 1:4 C/S plaster on inner & Outer sides, finishing in the internal and external surface of brick masonry etc.	Each	57.0		
18	Ch-3, It-9	Earthwork excavation in irrigation channels, drains, etc. to designed section, grades and profiles, excavated material disposed dressed within 100 ft. (30 m) lead	1000 Cft	45.0		
19	Ch-23, It-30	Providing ,laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working pressure pipe conforming to standard ISO4427, PS3580, Beta /Dadex /Popular/ IIL or approved equivalent manufacturer, including the cost of specials ,in trenches, as approved & directed by the engineer incharge, complete in all respects a) PN-8 (SDR-21)-63 mm	Per ft	11400.0		
20	Ch-26, It-46	Providing and fixing hot dipped Galvanized Iron chainlink mesh/fence of 2"x2" mesh made of wire of specified gauge, with the help of 1"x1/8" GI patti, GI clamps and screws, i/c the cost of 3 nos 8 SWG GI tie wires penetrated through mesh at top, middle and bottom, fixed on vertical posts of 2" diameter GI pipes (medium quality) erected @ 8 ft C/C duly embedded in PCC(1:2:4) etc. complete in all respect as approved and directed by the Engineer Incharge. ii) 10 SWG	Per Sft	23800.0		
Sub-Total (B)						0
C		Soakage Well-18 Nos				
1	Ch-22, It-1	Excavation of well in dry upto 20'(6 metre) below ground level, and disposal of soil within one chain (30 metre) a) in ordinary soil or sand : i) from 0' to 5' (0 to 1.5 m) depth	1000 Cft	59.35		
2		ii) from 5.1' to 10' (1.5 to 3.0 metre) depth	1000 Cft	59.35		
3		iii) from 10.1' to 15' (3.0 to 4.5 metre) dept	1000 Cft	73.88		
4		iv) from 15.1' to 20' (4.5 metre to 6.0 metre) depth	1000 Cft	36.00		
5	Ch-6, It-5(i)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1:4:8	100 Cft	21.64		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaquatpur & Rojhan)

Sanitation Scheme

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2.2 Engineer's Estimate for SepticTank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
6	Ch-6, It-6c(3)	Providing and laying reinforced cement concrete (including prestressed concrete), using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.): (c) Reinforced cement concrete in Pile cap, slab of rafts / strip foundation, base slab of column and retaining walls; etc. and footing beams, other structural members other than those mentioned in 6(a-d) above not requiring form work (i.e. horizontal shuttering) complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	1,464.08		
7	Ch-6, It-6a(3)	(a) Reinforced cement concrete in roof slab, beams,columns lintels, girders and other structural members laid I in situ or precast laid in position, or prestressed members cast in situ, complete in all respects: (3) Type C (nominal mix 1: 2: 4)	Cft	4,204.43		
8	Ch-7, It-5i	Pacca brick work in ground floor: i) Cement, sand mortar: Ratio 1:3	100Cft	200.76		
9	Ch-7, It-7 10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft	200.76		
10	Ch-6, It-2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100Cft	260.71		

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Sanitation Scheme

Basti Malik Parvez Akhtar, Basti Kukara, Basti Ghalo, Basti Imam Bux, Basti Waryam Solangi, Basti Allah Bux/M. Murad, Basti Sadat, Jindu Pir Kamal, Chak No 3 Abbasia, Chak No 3A Colony, Chak No 140 NP, Basti Malik Allah Ditta Solangi, Basti Elahi Bux Toor, Chak No 139 NP, Basti Azmat Lar, Basti Jam kareem Bahakas, Basti Marri, Basti Lal Maha, Basti Bhattian, Basti Buraha, Basti Haji Abdur Rehman Khosa, Basti Hussain Abad, Basti Noor Muhammad, Basti Haji Kamal, Basti Ameer Bux, Basti Chak 04A, Chak No 4 Abbasia, Basti Ishaq, Khangah, Basti Sanaullah Khan, Basti Pannua, Basti Nabi, Chak No 134 NP, Chak No 135 NP, Chak No 136 NP, Basti Manzoor Ahmed Lar, Basti Malik Lal Machi, Basti Haji Mehar Ali Drig, Basti Marral, Basti Abdul Rasheed Lar, Basti Noor Din

2.2 Engineer's Estimate for Septic Tank- (75-Nos) & Sokage Pit- (18-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
11	Ch-21, It-21	Providing and laying crushed stone aggregate of 1/4" to 1-1/2" gauge under and around the sewer pipe, including leveling, manual compaction, complete in all respects.	100Cft	260.71		
12	Ch-10, It-3	Supplying and filling sand under floor; or plugging in wells.	100Cft	151.12		
13	Ch-21, It-11	Providing and fixing 1 1/4 x 1 1/4 x 3/16" angle iron steps in manhole chamber i/c carriage and setting the same to correct line and level.	Each	174.00		
14	Ch-6, It-12b(i)	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): (c) Deformed bars (Grade-60)	100Kg	125.81		
15	NS	RPC Manhole Cover Manufactured with 100% Recycled Plastic Composite Material, 650 mm (26" dia) with clear opening size 600 mm (24" Dia) and RPC manhole frame having Dia meter 790 mm (31.1") with average breaking load capacity of 10 Ton and weight including frame of 50 kg (Minimum).	Each	18.00		
16	Ch-19, It-47	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized Polyvinyl Chloride) Nikasi/ SWV pipe, Dadex / Popular / Betaor approved equivalent manufacturer, plain / Bell Ended / Z-Joints conforming to BS4514/BS5255-EN1329 including the cost of specials and Solvents complete in all respects, as per drawings & specifications and or as approved and directed by the Engineer Incharge. (v) 6" i/d 160 mm	Rft	270.00		
17	Ch-1, it-1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Form Sahkhi Sarwar Quarry)	Cft	7,039.32		
Sub-Total (C)						0
Total (A+B+C)						0

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaquatpur & Rojhan)

Phase-I, Tehsil Liaquatpur, District Rahim Yar Khan

Multi-village Scheme-17,Multi-village Scheme-18,Multi-village Scheme-19,Tehsil Liaquatpur, District Rahim Yar Khan

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

3 Engineer's Estimate for Street Soling and Tuff Pavers

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-4, It -29	Dismantling brick or flagged flooring without concrete foundation.	100 Sft	3,609.38		
2	Ch-21, It -9	Restoration of flat brick pavement sand grouted, over 2"(50 mm) thick dry sand cushion, under soling on laid service line.	100 Sft	3,609.38		
3	Ch-03 , It -5(i)	Earthwork in ordinary soil for embankments lead up to 100 ft. (30 m), including ploughing, mixing and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects ii) 90% maximum modified AASHTO dry density.	1000 Cft	2,841.56		
4	Ch-03 , It -17(a,b)	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m) a) upto ¼ mile (400 m). b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.)	1000 Cft	2,841.56		
5	Ch- 18 It -3 (a ii) + Carriage	a) Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work except gravel and aggregate. ii) Crushed stone aggregate	100 Cft	450.00		
6	Ch- 18 It - 20	Providing and laying dry brick pavement /soling in streets or sand grouted, laid in proper camber, including watering, compaction of bed to proper camber, for the purpose of measurement and sand cushion.	100 Cft	5,414.06		
7	Ch-10, It-43 b	Providing and laying Tuff Pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect.(50% Grey / 50% Coloured) b) 60-mm thick	Per Sft	180,000.00		
8	Ch-10, It-43 b	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	100 Cft	112.50		
9	RA -O6	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Form Sahkhi Sarwar Quarry)	Cft	9,900.00		
Total						0

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Phase-I, Tehsil Liaqatpur, District Rahim Yar Khan

Multi-village Scheme-17,Multi-village Scheme-18,Multi-village Scheme-19,Tehsil Liaqatpur, District Rahim Yar Khan

Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

Bill No. 04: EPM

Sr. No.	Ref	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
1	NS	Medical screening for workers (HIV screening, CBC, Hep. BsAg, HCV antibodies, LFTs, RFTs, e.t.c.	Persons	450		
2	NS	Tarpaulins (High Quality water proof PVC)	Sft	270		
3	NS	Water sprinkling through tank mounted on tractor	Per Trip	450		
4	NS	First Aid Kit (pain killers, eyewash solution, antibiotic ointment, thermometer, plasters, sterile gauze dressings, sterile eye dressings, triangular bandages, crepe rolled bandages, safety pins, disposable sterile gloves and tweezers)	Each	15		
5	NS	Fire alarm (Signal Transmission: Wired Alarm, Working Principle: Manual Alarm Button)	No	15		
6	NS	DCP Fire extinguishers (6 kg) in case of fire (The material of the cylinder is steel. The extinguishing agent is mono ammonium phosphate and ammonium sulfate powder and the discharge time of the agent is 13 seconds)	No	15		
7	NS	CO2 Fire extinguishers (6 kg discharge time of the agent is 13 seconds).	No	15		
8	NS	Warning/Safety Signs (Weatherproof Pvc or Plastic or aluminum sign:reflective print:standardized colors and pictograms (danger,caution,mandatory)	No	375		
9	NS	Green Mesh (Green safety netting for site periphery: 50% shading:UV-stabilized HDPE Material.	Sft	3000		
10	NS	Safety Cones (UV-resistant PVC or rubber material:at least 28 to 36 inches in height : orange Color with reflective collars minimum 4 inch reflective band for day and night	Each	180		
11	NS	Safety jackets (Fluorescent yellow/orange :retro-reflective strips:breathable mesh fabric:secure velcro or zipper cloosure,provided in approrpit size are required by staff	Each	450		
12	NS	Safety Harness Belt(Renowned brand)	Each	45		

Sr. No.	Ref	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	NS	Ear plugs (corded Reusable silicon Earplugs)	Each	300		
14	NS	Helmets (PE shell with vents Lining; material: Plastic Chin strap included; Adjust head size by ratchet knob)	Each	450		
15	NS	Safety shoes (Renowned brand)	Each	525		
16	NS	Protective goggles (Anti-fog, Anti scratch, Poly-carbonate Scratch and impact resistant, side protection sheet)	Each	150		
17	NS	Gloves (made up of nylon, polyurethane with ironclad)	Each	750		
18	NS	Dust Mask (N-95)	Each	1500		
19	NS	Handling of hazardous material (Store all hazardous materials properly, separate incompatibles, and store in ventilated, dry, cool areas)	3 time Per Villages	45		
20	NS	Handling of solid waste (storage, collection, transportation, treatment, utilization, processing, and final disposal of solid wastes)	4 time Per Villages	45		
21	NS	Air Quality Monitoring, As per the paramters and methodology defined by Punjab EPA (Quarterly in every village)	Each	45		
22	NS	Groundwater Quality Testing as per all the parameters and methodology defined by Punjab EPA (Quarterly in every village)	Each	45		
23	NS	Surface Water Quality Testing as per all the parameters and methodology defined by Punjab EPA (Quarterly in every Revenue village)	Each	45		
24	NS	Waste Water Quality Testing as per all the parameters and methodology defined by Punjab EPA (Quarterly in every Revenue village)	Each	45		
25	NS	Noise level monitoring as per the methodology defined by Punjab EPA (Quarterly in every village)	Each	45		
TOTAL AMOUNT						-

Punjab Rural Sustainable Water Supply & Sanitation Project, Cluster South-I (Liaqatpur & Rojhan)

Phase-I, Tehsil Liaqatpur, District Rahim Yar Khan

Multi-village Scheme-17,Multi-village Scheme-18,Multi-village Scheme-19,Tehsil Liaqatpur, District Rahim Yar Khan
Basti Malik Parvez Akhtar,Basti Kukara,Basti Ghalo,Basti Imam Bux,Basti Waryam Solangi,Basti Allah Bux/M. Murad,Basti Sadat,Jindu Pir Kamal,Chak No 3 Abbasia,Chak No 3A Colony,Chak No 140 NP,Basti Malik Allah Ditta Solangi,Basti Elahi Bux Toor,Chak No 139 NP,Basti Azmat Lar,Basti Jam kareem Bahakas,Basti Marri,Basti Lal Maha,Basti Bhattian,Basti Buraha,Basti Haji Abdur Rehman Khosa,Basti Hussain Abad,Basti Noor Muhammad,Basti Haji Kamal,Basti Ameer Bux,Basti Chak 04A,Chak No 4 Abbasia,Basti Ishaq,Khangah,Basti Sanaullah Khan,Basti Pannua,Basti Nabi,Chak No 134 NP,Chak No 135 NP,Chak No 136 NP,Basti Manzoor Ahmed Lar,Basti Malik Lal Machi,Basti Haji Mehar Ali Drig,Basti Marral,Basti Abdul Rasheed Lar,Basti Noor Din

BILL NO. 5: EMPLOYER/ENGINEER'S FACILITIES

Sr. No.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
<i>The following items shall be provided complete in all respects and in accordance with the special provision of the bidding document and up to the satisfaction of The Engineer / The Employer. Rates for below given items are to be filled-in by the Contractor however, payment will be made as per actual bills in accordance with special provisions.</i>					
1	Providing and maintaining site offices (portable air condition (1,5 ton AC) cabin containers lined with win board size 20'x8'x8.5' with toilet & kitchen, all-time availability of water and electricity) for the entire duration of the project to the Employer and the Engineer. It includes office tables, chairs, water dispenser, electric heater, steel almirah for document storage, etc complete with all respect. After completion of the project these containers and all accessories will be the property of PRMSC	Nos	1		
2	Providing 01 Nos office boy in accordance with the special provisions of the bidding document and up to the satisfaction of the Employer/Engineer.	Per month	20		
3	Providing and maintaining the Cost of Utility Services (Electricity, Water, Gas, etc.) for the 01 Nos offices for the entire duration of the Project.	Per month	20		
4	Complete Surveying instruments including Total Station (02Nos) with tribach (5 seconds), automatic level complete, aluminum telescopic tripod, prism with rod, leveling staff and steel measuring tapes (02 No's each) for the use of Employer and the Engineer.	Per month	20		
Total Amount					0