

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

10 BCC Revenue Villages Phase-II, Tehsil Liaqatpur, District Rahim Yar Khan

Yakhtar Maha (Yakhtar Maha 1, Yakhtar Maha 2, Basti Baba Ali) ,Malik Pur (Catchment-1,2,3-Basti Durani/Basti Maachi,Basti Khan Muhammad) ,Hussain Abad ,Chak No 116 NP, Chak 116 NP Alif ,Chak No 117 NP (Basti Seth M. Bux, Basti Abdur Rehman,Basti Haji Abdul Ghani) ,Chak No 118 NP (Basti Allah Bux) , Chak No 120 NP,Chak No 130 NP,Chak No 137 NP,Ashraf Shah (Basti Gopang Gorgage/Basti Manzoor Khan Koosh,Basti Bado Lar,Basti Abdul Majeed Khan Lashari)

Main Summary

Sr. No.	Description	Amount (PKR)
1	Water Supply Scheme	
2	Sanitation Scheme	
3	ESMP Cost	
4	Engineer's Facilities	
	Total Cost (A+B+C+D)	
	PRA 5%	
	Capital Cost	
	Cost in Million	

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

Water Supply Scheme

10 BCC Revenue Villages Phase-II, Tehsil Liaquatpur, District Rahim Yar Khan

Yakhtar Maha (Yakhtar Maha 1,Yakhtar Maha 2,Basti Baba Ali) ,Malik Pur (Catchment-1,2,3-Basti Durani/Basti Maachi,Basti Khan Muhammad) ,Hussain Abad ,Chak No 116 NP, Chak 116 NP Alif ,Chak No 117 NP (Basti Seth M. Bux, Basti Abdur Rehman,Basti Haji Abdul Ghani) ,Chak No 118 NP (Basti Allah Bux) , Chak No 120 NP,Chak No 130 NP,Chak No 137 NP,Ashraf Shah (Basti Gopang Gorgage/Basti Manzoor Khan Koosh,Basti Bado Lar,Basti Abdul Majeed Khan Lashari)

Cost Summary

Sr. No.	Description	Amount (PKR)
1	Stand Post With Ejector Pump (21 No.)	
1.1	Boring and Conversion for Ejector Pump	0
1.2	Construction of Stand Post including Civil & Plumbing, Electrical Works	0
	Total Cost (A)	0

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1.1 Engineer's Estimate for Boring and Conversion for Ejector Pump						
Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
1	Ch-23, It-1	Boring for tubewell in all types of soil except shingle 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	2,100.00		
2	Ch-23, It-1	Boring for tubewell in all types of soil except shingle and rock, from ground level 101 to 200 ft.(30 m) depth, including sinking and withdrawing of casing pipe, complete:- b) 6" (150 mm) i/d	Per Rft of Bore	420.00		
3	Ch-23, It-5	Furnishing sample of water from bore hole.	Set	42.00		
4	Ch-23, It-11(a-ii)	Providing and installing P.V.C. Bail/End plug, B.S.S class "B" in tubewell bore hole:- (4" dia). (100 mm)	Each	21.00		
5	Ch-23, It-8(a-ii)	Providing and installing, P.V.C. strainer B.S.S. Class 'B' in tubewell bore hole, including sockets and solvents, etc.complete . 4" dia (100mm)	Rft	840.00		
6	Ch-23, It-13(a-ii)	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,(PS-3051=BS-3505 etc. complete (4" dia)	Rft	1,680.00		
7	Ch-23, It-17	Shrouding with graded pea gravel 3/8" to 1/8" (10 to 3 mm), around tubewell in bore hole.	Cft	279.27		
8	N.S	Chemical, Physical and Arsenic Analysis of water from approved Water Testing Lab.	Each	42.00		
9	N.S	Geophysical logging of bore (self potential resistivity Both short normal and Gama) complete in all respect.	Job	21.00		
10	Ch-25, It-9	Small iron work, such as gusset plates, knees, bends, stirrups, straps, rings, etc. including cutting, drilling, riveting, handling, assembling and fixing; but excluding erection in position. Ms Cap (6mm thick)	100 kg	1.55		
11	Ch-25, It-11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100 kg	1.55		
12	Ch-23, It-16i	Testing and developing of tubewell of size 6" (150 mm) i/d and upto continuously. i) up to 1.5 cs. discharge	Hrs.	1,512.00		
13	Ch-23, It-32	P/F Ejector Pump of specified Suction and Delivery 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. ii) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	Each	21		
14	Ch-6, It-5(f)	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): Ratio 1: 2: 4	100	115.45		
Total 21 No. of Boring and Conversion for Ejector Pump						0

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1.2 Engineer's Estimate for Construction of Stand Post including Civil & Plumbing, Electrical Works

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	16.934		
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	14.091		
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	76.515		
4	Ch-6, It-5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)				
		(l) Ratio 1: 4: 8	100 Cft	12.086		
		(f) Ratio 1: 2: 4	100 Cft	25.120		
5	Ch-7, It-4	Brick work in Foundation Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100Cft	148.210		
6	Ch-7, It-5	Brick work in Super Structure Pacca brick work in ground floor :- i) Cement, sand mortar :- Ratio 1:4	100Cft	214.827		
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	35.879		
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	17.317		
9	Ch-11, It-9	Cement Plaster Cement plaster 1:4 upto 20' (6.00 m) height:- c) 1/2" (13 mm) thick	100Sft	148.785		
10	Ch-11, It-18	Cement pointing struck joint, on walls upto 20' height. b) ratio 1:3	100Sft	304.760		
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	41.160		
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	50.453		
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	3750.889		
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	128.146		
16	Ch-10, It-45(i) - 17.65 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.	5512.500		

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1.2 Engineer's Estimate for Construction of Stand Post including Civil & Plumbing, Electrical Works

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
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.	3192.000		
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.	2220.750		
19	Ch-11, It-23+24	Preparing surface and painting with Distemper 3coats	100Sft	178.56		
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	1,029.00		
21	Ch-25, It-45	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	220.50		
22	Ch-12, It-1	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	1,249.50		
23	Ch-9, It-15	Khuras on roof 2"x2'x6" (600 x 600 x 150 mm)	Each	21.00		
24	N.S	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	4551.438		
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	504.000		
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	30.727		
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"x16-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 embedded 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	4116.000		
28	N.S	MS ladder including painting as per drawings.	Rft	294.00		

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1.2 Engineer's Estimate for Construction of Stand Post including Civil & Plumbing, Electrical Works

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
		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	924.000		
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	2772.000		
		iii) 7/0.74 mm (7/0.029") (P+N+E) for Circuit Wiring	Rft	2310.000		
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	42.000		
32	Ch-24, It-106	Supply, installation, testing & commissioning of 16 SWG Sheet steel powder coated back boxes with earth terminal, recessed in wall, including accessories, complete in all respect as per specifications and as approved by Engineer Small 3"x3"	Each	42.000		
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	42.000		
34	Ch-24, It-66	Supply and fitting of mercury vapour lamp, complete with choke set. 125 watt lamp	Each	42.000		
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	84.00		
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	42.00		
		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	693.00		
38	Ch-9,it-21	Rain water down pipe cast iron head fixed in place, including cost of clamp holdfast and painting	Each	84.00		
39	Ch-9,it-22	Shoes, bends or offsets for cast iron rain water down pipe, including fixing and painting.	Each	84.00		
40	Ch-23,it-33b	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				
		PPRC Pipe 40 mm dia	Rft	966.00		
		PPRC Pipe 32 mm dia	Rft	1050.00		
41	Ch-23,it-33b	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working pressure pipe conforming to standard ISO 4427, PS 3580, 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. 3" (90mm) PN-10 (SDR-17)	Rft	210.00		
42	19/27-ii.	Providing and fixing chromium plated bib cock:- ii) 1.5 cm (1/2").	Each	168.00		
43	23/14-a-b	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) b) 4" i/d (100 mm)	Rft	315.00		
44	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	21000		
Total Cst of 21 No. of Stand Post						-

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Cost Summary

Sr. No.	Description	Amount (PKR)
2	Sanitation Scheme	
2.1	Construction of Drains including placing of RCC & RPC Perforated Slab	0
2.2	Communal Septic tank SepticTank- (28-Nos) & Sockage pit (6-Nos)	0
2.3	Individual Septic tank-(6-Nos) with Upvc Pipe Laying	0
	Total	0

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1.1 Engineer's Estimate for Construction of Drains including placing of RCC & RPC Perforated Slab

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	18.20		
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	34.14		
3	Ch-4, It -45	Dismantling and removing road metaling	100Cft	55.43		
4	Ch-21, It -10 (a)	Restoration of metaled road, on laid service line, including compaction a) Carpeted Road, with 2" (50 mm) carpet and 10" depth of stone metal for sub-base and base	100 Sft	47.50		
5	Ch-4, It -8	Dismantling storm watre drain including base concrete	100Cft	113.10		
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 cuttingpits for joints, etc. complete in all respects.	1000Cft	27.44		
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	303.67		
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	236.24		
9	Ch-7, It-4 (i)	Pacca brick work in foundation and plinth in: Cement, sand mortar: Ratio 1:3	100 Cft	1,340.40		
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	873.72		
11	Ch -11 It - 8	Cement plaster 1:3 upto 20' (6.00 m) height: b) ½" (13 mm) thick	100Sft	3,086.54		
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	48,540		
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	9,709		
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	105.45		
		(c) Deformed bars (Grade-60) *For Road Crossing	100Kg	281.08		

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1.1 Engineer's Estimate for Construction of Drains including placing of RCC & RPC Perforated Slab

Sr. No.	MRS Ref.	Description	Unit	Quantity	Rate (PKR)	Amount (PKR)
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	14,172.94		
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	6,810.26		
17	N.S	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	4,044.98		
18	N.S	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	809.05		
19	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	11,905.27		
20	N.S	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	302.00		
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 in charge. (v) 110 mm	Rft	4,530.00		
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	101.93		
Total						0

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10 BCC Revenue Villages Phase-II, Tehsil Liaqatpur, District Rahim Yar Khan

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2.2 Engineer's Estimate for Communal Septic tank SepticTank- (28-Nos) & Sockage pit (6-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
A		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	26.2		
		b) Lift from 5ft (1.5m) to 15 ft (4.5 m):-	1000 Cft	22.7		
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	1000 Cft	22.7		
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	12.58		
		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	3389.4		
5		(a)(ii) Reinforced cement concrete in retaining/ Shear walls laid in situ or precast laid in position, or prestressed members castin 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	8841.2		

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2.2 Engineer's Estimate for Communal Septic tank Septic Tank- (28-Nos) & Sockage pit (6-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
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	2259.6		
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	584.6		
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	13363.7		
9	Ch-19, It-48	Providing, fixing, testing and commissioning of µPVC (Unplasticized Polyvinyl Chloride) 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	1,400.00		
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	840.0		
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	99.41		
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	392.0		

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2.2 Engineer's Estimate for Communal Septic tank SepticTank- (28-Nos) & Sockage pit (6-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	1548		
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	168.0		
15	RA -21	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	56.0		
16	RA -21	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	21.0		

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2.2 Engineer's Estimate for Communal Septic tank SepticTank- (28-Nos) & Sockage pit (6-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
17	RA -20	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, RCC Slab 4" Thick, finishing in the internal and external surface of brick masonry etc.	Each	21.0		
18	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-8 (SDR-21)-63 mm	Per ft	5250.0		
19	Ch-3, It-9	Earthwork excavation in irrigation channels, drains, etc. to designedsection, grades and profiles, excavated material disposed dressed within 100 ft. (30 m) lea	1000 Cft	9.5		
20	Ch-26, It-46	Providing and fixing hot dipped Galvanized Iron chainlink mesh/fence of 2"x2"mesh made of wire of specified guage, 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 embeded in PCC(1:2:4) etc.complete in all respect as approved and directed by the Engineer Incharge. ii) 10 SWG	Per Sft	5040.0		
Total						0

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2.2 Engineer's Estimate for Communal Septic tank SepticTank- (28-Nos) & Sockage pit (6-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
B	Engineer's Estimate for Sockage pit (6-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' (o to 1.5 m) depth	1000 Cft	9.89		
2		ii) from 5.1' to 10' (1.5 to 3.0 metre) depth	1000 Cft	9.89		
3		iii) from 10.1' to 15' (3.0 to 4.5 metre) dept	1000 Cft	12.50		
4		iv) from 15.1' to 20' (4.5 metre to 6.0 metre) depth	1000 Cft	1.98		
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	4.74		
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	313.67		
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	596.71		
8	Ch-7, It-5i	Pacca brick work in ground floor: i) Cement, sand mortar: Ratio 1:3	100Cft	39.01		
9	Ch-7, It-10	Extra for pacca brick work in steining of wells or any other circular masonry.	100Cft	39.01		

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2.2 Engineer's Estimate for Communal Septic tank Septic Tank- (28-Nos) & Sockage pit (6-Nos)

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
10	Ch-6, It-2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100Cft	34.64		
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	34.64		
12	Ch-10, It-3	Supplying and filling sand under floor; or plugging in wells.	100Cft	26.92		
13	Ch-21, It-11	Providing and fixing 1¼x1¼"x3/16" angle iron steps in manhole chamber i/c carriage and setting the same to correct line and level.	Each	48.00		
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	19.92		
15	RA -21	Providing/fixing of RPC Manhole cover with frame round shape black color 650mm dia with clear opening size 600mm (24" dia) and RPC manhole frame having diameter 790 mm (Certified ISO 9001-2015) load bearing capacity 50 tons vehicle (including all labour & tax charges. complete in all respects as per drawings / specifications and as directed by the Engineer - in - charge. (Analysis attached)	Each	6.00		
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	90.00		
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	1,250.72		
Sub-Total (B)						0
Total Cost (A+B)						0

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2.3 Engineer's Estimate for Individual Septic tank-(6-Nos) with Upvc Pipe Laying

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
		SepticTank				
1	Ch-3, It-43	Earth work excavation in open cutting for sewers including backfilling, Without shuttering of wooden vertical planks, struts and beams,dressing to correct section and dimension according to templates and levels and removing surface water i/c backfilling in all types of soil except shingle, gravel and rock,complete in all respect. By Manual 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000 Cft	6.75		
2	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	3.32		
		b) Lift from 5ft (1.5m) to 15 ft (4.5 m):-	1000 Cft	2.98		
3	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	1000 Cft	2.98		
4	Ch-6, It-5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):Ratio 1:4:8				
		Ratio 1:4:8	100 Cft	2.31		
		Ratio 1:2:4	100 Cft	1.22		
5	Ch-7, It-4	Pacca brick work in foundation and plinth in:Cement, sand mortar:-Ratio 1:3	100 Cft	15.82		
6	Ch-11, It-8	Cement plaster 1:3 upto 20' (6.00 m) height:b) ½" (13 mm) thick	100 Sft	30.86		
	Ch-6, It-6	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.):-				

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2.3 Engineer's Estimate for Individual Septic tank-(6-Nos) with Upvc Pipe Laying

	MRS-Ref	Description	Unit	Qty	Unit Rate	Amount Rs.
7		(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 C (nominal mix 1:2: 4)	Per Cft	189.0		
8	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	4.43		
9	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	491.7		
10	Ch-19, It-47	Providing,fixing,testing and commissioning of µPVC (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	1,590.00		
11	RA -21	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	12.0		
12	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, finishing in the internal and external surface of brick masonry etc.	Each	54.00		
Total Cost						0

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

10 BCC Revenue Villages Phase-II, Tehsil Liaqatpur, District Rahim Yar Khan

Yakhtar Maha (Yakhtar Maha 1,Yakhtar Maha 2,Basti Baba Ali) ,Malik Pur (Catchment-1,2,3-Basti Durani/Basti Maachi,Basti Khan Muhammad) ,Hussain Abad ,Chak No 116 NP, Chak 116 NP Alif ,Chak No 117 NP (Basti Seth M. Bux, Basti Abdur Rehman,Basti Haji Abdul Ghani) ,Chak No 118 NP (Basti Allah Bux) , Chak No 120 NP,Chak No 130 NP,Chak No 137 NP,Ashraf Shah (Basti Gopang Gorgage/Basti Manzoor Khan Koosh,Basti Bado Lar,Basti Abdul Majeed Khan Lashari)

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	300		
2	NS	Tarpaulins (High Quality water proof PVC)	Sft	180		
3	NS	Water sprinkling through tank mounted on tractor	Per Trip	300		
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	10		
5	NS	Fire alarm (Signal Transmission: Wired Alarm, Working Principle: Manual Alarm Button)	No	20		
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	10		
7	NS	CO2 Fire extinguishers (6 kg discharge time of the agent is 13 seconds).	No	10		
8	NS	Warning/Safety Signs (Weatherproof Pvc or Plastic or aluminum sign:reflective print:standardized colors and pictograms (danger,caution,mandatory)	No	250		
9	NS	Green Mesh (Green safety netting for site periphery: 50% shading:UV-stabilized HDPE Material.	Sft	2000		
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	120		
11	NS	Safety jackets (Fluorescent yellow/orange :retro-reflective strips:breathable mesh fabric:secure velcro or zipper closure,provided in appropit size are required by staff	Each	300		
12	NS	Safety Harness Belt(Renowned brand)	Each	30		

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Bill No. 04: EPM

Sr. No.	Ref	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	NS	Ear plugs (corded Reusable silicon Earplugs)	Each	200		
14	NS	Helmets (PE shell with vents Lining; material: Plastic Chin strap included; Adjust head size by ratchet knob)	Each	300		
15	NS	Safety shoes (Renowned brand)	Each	350		
16	NS	Protective goggles (Anti-fog, Anti scratch, Poly-carbonate Scratch and impact resistant, side protection sheet)	Each	100		
17	NS	Gloves (made up of nylon, polyurethane with ironclad)	Each	500		
18	NS	Dust Mask (N-95)	Each	1000		
19	NS	Handling of hazardous material (Store all hazardous materials properly, separate incompatibles, and store in ventilated, dry, cool areas)	3 time Per Villages	30		
20	NS	Handling of solid waste (storage, collection, transportation, treatment, utilization, processing, and final disposal of solid wastes)	4 time Per Villages	30		
21	NS	Air Quality Monitoring, As per the paramters and methodology defined by Punjab EPA (Quarterly in every village)	Each	30		
22	NS	Groundwater Quality Testing as per all the parameters and methodology defined by Punjab EPA (Quarterly in every village)	Each	30		
23	NS	Surface Water Quality Testing as per all the parameters and methodology defined by Punjab EPA (Quarterly in every Revenue village)	Each	30		
24	NS	Waste Water Quality Testing as per all the parameters and methodology defined by Punjab EPA (Quarterly in every Revenue village)	Each	30		
25	NS	Noise level monitoring as per the methodology defined by Punjab EPA (Quarterly in every village)	Each	30		
TOTAL AMOUNT						-

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					