



Punjab Municipal Development Fund Company

**Consultancy Services for Detailed Design of Infrastructure
sub-projects (Parking Sheds, Parks, Roads, Chowks, etc.)
and Resident Supervision in 16 Cities of Punjab**

Construction of SWM Parking Area

MC Kamoke

Detailed Cost Estimate

February 2023



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**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

SWM PARKING AREA (KAMOKE)

COMPARATIVE STATEMENT

Sr. No.	Description	Previous Amount (Rs.)	Revised Amount (Rs.)	Difference (Rs)
1	ADMIN BLOCK			
i	Civil Work	1,148,575	4,937,107	3,788,532
ii	Plumbing Work	237,016	268,008	30,993
iii	Electrical Work	277,143	223,292	(53,852)
2	STORE ROOM			
i	Civil Work	1,657,851		(1,657,851)
ii	Plumbing Work	6,522		(6,522)
iii	Electrical Work	104,781		(104,781)
3	PARKING SHEDS			
i	Civil work	25,478,848	28,719,497	3,240,649
ii	Electrical work	927,212	599,773	(327,439)
4	WASHING PIT	558,277	1,927,290	1,369,014
5	GENERATOR PAD	160,133		(160,133)
6	PUMP PAD	14,957		(14,957)
7	EXTERNAL WORK (BOUNDARY WALL + TUFF PAVER)	6,615,061	9,210,067	2,595,006
8	EJECTOR PUMP		250,648	250,648
9	EXTERNAL WATER SUPPLY	465,150	660,402	195,252
10	EXTERNAL SEWERAGE SYSTEM		657,988	657,988
11	SEPTIC TANK	318,021	164,555	(153,466)
12	DRAINAGE SYSTEM		382,516	382,516
13	SILT HOLDING TANK		227,143	227,143
14	EXTERNAL ELECTRICAL WORK	8,432,340	3,286,817	(5,145,523)
15	TUBEWELL	3,430,690		(3,430,690)
16	DISMANTLING WORK	(773,176)	(691,195)	81,981
17	ENVIRONMENTAL MITIGATION COST	112,425	112,425	-
	Total Rs.	49,171,827	50,936,332	1,764,506
	Contingencies @ 2%	983,437	1,018,727	35,290

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SWM PARKING AREA (KAMOKE)

COMPARATIVE STATEMENT

Sr. No.	Description	Previous Amount (Rs.)	Revised Amount (Rs.)	Difference (Rs)
	Price Escalation @ 6%		3,056,180	3,056,180
	PRA Charges @ 5%	2,458,591	2,546,817	88,225
	Total Amount. Rs.	52,613,855	57,558,056	4,944,201

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SWM PARKING AREA (KAMOKE)

SUMMARY

Sr. No.	Description	Amount (Rs)
1	ADMIN BLOCK	
i	Civil Work	4,937,107
ii	Plumbing Work	268,008
iii	Electrical Work	223,292
2	PARKING SHED (SIZE 75' x 32')	
i	Civil Work	8,960,066
ii	Electrical Work	163,348
3	PARKING SHED (SIZE 60' x 32')	
i	Civil Work	7,049,572
ii	Electrical Work	71,495
4	PARKING SHED (SIZE 96' x 16')	
i	Civil Work	4,947,116
ii	Electrical Work	78,223
5	PARKING SHED (SIZE 48' x 16') (2Nos.)	
i	Civil Work	5,082,249
ii	Electrical Work	190,151
6	PARKING SHED (SIZE 24' x 16') (2Nos.)	
i	Civil Work	2,680,494
ii	Electrical Work	96,557
7	WASHING PIT	1,927,290
8	EXTERNAL WORK (BOUNDARY WALL + TUFF PAVER)	9,210,067
9	EJECTOR PUMP	250,648
10	EXTERNAL WATER SUPPLY	660,402
11	EXTERNAL SEWERAGE SYSTEM	657,988
12	SEPTIC TANK	164,555
13	DRAINAGE SYSTEM	382,516
14	SILT HOLDING TANK	227,143
15	EXTERNAL ELECTRICAL WORK	3,286,817

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DETAILED COST ESTIMATE

SWM PARKING AREA (KAMOKE)

SUMMARY

Sr. No.	Description	Amount (Rs)
16	DISMANTLING WORK	(691,195)
17	ENVIRONMENTAL MITIGATION COST	112,425
	Total Rs.	50,936,332
	Contingencies @ 2%	1,018,727
	Price Escalation @ 6%	3,056,180
	PRA Charges @ 5%	2,546,817
	Total Amount. Rs.	57,558,056

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	2.70	10,712.60	28,924
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	3,986.25	9.25	36,873
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	4.50	29,079.80	130,859
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:-				
		Cement, sand mortar:- Ratio 1:5	100 Cft	18.19	31,875.60	579,817
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	4.08	8,702.95	35,508
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	5.44	6,299.20	34,268

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ADMIN BLOCK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	24.34	34,090.60	829,765
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		Above foundation				
		(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)	P.Cft	740.63	556.50	412,158
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	21.17	31,808.25	673,381
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	11.70	2,944.60	34,452
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	3.86	9,167.40	35,386
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	1.95	38,271.80	74,630

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ADMIN BLOCK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Porcelain Tile				
13	10/42/c	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.				
		c) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	840.00	213	178,920
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	75.90	294.15	22,326
		Ceramic Tile				
15	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	330.00	241.40	79,662
16	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	932.60	294.15	274,324

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ADMIN BLOCK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Marble				
17	10/47	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.				
		i) China Verona	Sft	80.75	413.75	33,410
		Slab Plaster				
18	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:-1:3)	100 Sft	11.70	3,765.60	44,058
		Cement Plaster				
19	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	46.82	4,437.45	207,761
		Pointing				
20	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	19.50	3,575.35	69,719
21	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	19.50	669.00	13,046
		Distempering				
22	11/23	Distempering:- iii) three coats	100 Sft	58.52	1,309.95	76,658
		Wooden Door				
23	12/52	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	Per Sft	229.00	685.75	157,037

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CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
24	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised/ powder coated aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge	Sft	68.00	1,441.20	98,002
		Formica Sheet				
25	Rate Analysis	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.	Sft	75.00	75.11	5,633
26	12/17	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge				
		(ii) 10.50 " wide	Sft	105.00	626.60	65,793
27	12/28	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.				
		b) Deodar wood	Sft	34.38	873.20	30,016
28	12/53	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	Rft	30.00	72.00	2,160
29	12/58	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.				
		b) Deodar wood architrave	Sft	30.00	102.95	3,089

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Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Lock				
30	12/22	Providing and fixing, approved quality mortice lock.	Each	13.00	799.00	10,387
		Paint				
31	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	4.58	1,325.50	6,071
		ii)Two coat	100 Sft	4.58	722.60	3,310
		Aluminium Window				
32	25/52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft	130.50	1,353.75	176,664
		Roof Insulation				
33	9/5	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.	100 Sft	12.85	11,721.40	150,620
		Insulation				
34	9/45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, closed cell type structure) i/c cutting and placing in position. complete in all respect.				
		c) 2" thick	100 Sft	12.85	11,979.55	153,937
		Sheeting				
35	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	2,570.00	8.05	20,689

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CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Khurras				
36	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	866.40	1,733
		Bottom Khuras				
37	9/16	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	2.00	1,765.25	3,531
38	1/1	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 190 Km)	Cft	1,249.82	114.04	142,532
		Total Rs.				4,937,107

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Office wall 9" Thick Wall	1	230.50	3.00	3.00	2,074.50	Cft
	Center wall 4-1/2" Thick Wall	1	83.00	2.50	3.00	622.50	Cft
					Total	2,697.00	Cft
					Total	2.70	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Office wall 9" Thick Wall	1	230.50	9.00		2,074.50	Sft
	Center wall 4-1/2" Thick Wall	1	83.00	8.50		705.50	Sft
	Floor	1	48.25	25.00		1,206.25	Sft
					Total	3,986.25	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Office wall 9" Thick Wall	1	230.50	3.00	0.50	345.75	Cft
	Center wall 4-1/2" Thick Wall	1	83.00	2.50	0.50	103.75	Cft
					Total	449.50	Cft
					Total	4.50	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Office wall 9" Thick Wall						
	Step - 1	1	230.50	2.250	0.50	259.31	Cft
	Step - 2	1	230.50	1.875	0.50	216.09	Cft
	Step - 3	1	230.50	1.500	0.50	172.88	Cft
	Step - 4	1	230.50	1.125	0.50	129.66	Cft
	Step - 5	1	230.50	0.750	3.50	605.06	Cft
	Center wall 4-1/2" Thick Wall						
	Step - 1	1	83.00	1.875	0.50	77.81	Cft
	Step - 2	1	83.00	1.500	0.50	62.25	Cft
	Step - 3	1	83.00	1.125	0.50	46.69	Cft
	Step - 4	1	83.00	0.750	4.00	249.00	Cft
					Total	1,818.75	Cft
					Total	18.19	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Office wall 9" Thick Wall	2	230.50	0.75		345.75	Sft
	Center wall 4-1/2" Thick Wall	1	83.00	0.75		62.25	Sft
					Total	408.00	Sft
					Total	4.08	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Office wall 9" Thick Wall	1	230.50		2.00	461.00	Sft
	Center wall 4-1/2" Thick Wall	1	83.00		1.00	83.00	Sft
					Total	544.00	Sft
					Total	5.44	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Office wall 9" Thick Wall	1	230.50	0.75	11.00	1,901.63	Cft
	Center wall 4-1/2" Thick Wall	1	83.00	0.75	11.00	684.75	Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Parapet Wall	1	163.00	0.38	2.50	152.81	Cft
	Entrance step	2	10.00	1.00	0.75	15.00	Cft
	D/d Doors and Window						
	D-1	-3	3.50	0.75	7.00	(55.13)	Cft
	D-2	-3	3.00	0.75	7.00	(47.25)	Cft
	D-3	-1	2.50	0.75	7.00	(13.13)	Cft
	D-4	-6	2.50	0.75	5.00	(56.25)	Cft
	DW-1	-1	8.00	0.75	8.50	(51.00)	Cft
	W-1	-3	6.00	0.75	4.00	(54.00)	Cft
	W-2	-1	4.00	0.75	4.00	(12.00)	Cft
	W-3	-1	3.00	0.75	3.50	(7.88)	Cft
	V-1	-8	2.00	0.75	2.00	(24.00)	Cft
					Total	2,433.56	Cft
					Total	24.34	%Cft
	Concrete Work						
8	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-						
	Above foundation						
	(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)						
	Top Slab	1	1,285.00	1.00	0.50	642.50	Cft
	Kitchen slab and Record room	1	25.00	2.00	0.50	25.00	Cft
	CB-1	1	35.00	0.75	0.75	19.69	Cft
	Doors and window Lintels						
	D-1	3	4.50	0.38	0.75	3.80	Cft
	D-2	3	4.00	0.75	0.75	6.75	Cft
	D-3	1	3.50	0.38	0.75	0.98	Cft
	D-4	6	3.50	0.38	0.75	5.91	Cft
	DW-1	1	10.00	0.75	0.75	5.63	Cft
	W-1	3	7.00	0.75	0.75	11.81	Cft
	W-2	1	5.00	0.75	0.75	2.81	Cft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Porcelain Tile						
13	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.						
	c) (Non-Skid Chequered Tiles) 300mmx300mm	1	840.00	1.00		840.00	Sft
						Total	840.00
							Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	230.00	1.00	0.33	75.90	Sft
						Total	75.90
							Sft
	Ceramic Tile						
15	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	330.00	1.00		330.00	Sft
						Total	330.00
							Sft
16	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit	
	Washroom	8	5.50		5.00	220.00	Sft	
		8	3.00		5.00	120.00	Sft	
	Washroom	2	5.00		5.00	50.00	Sft	
		2	6.00		5.00	60.00	Sft	
	Changing Room	4	4.00		5.00	80.00	Sft	
		4	4.67		5.00	93.40	Sft	
	Lockers Area	2	9.67		5.00	96.70	Sft	
		1	61.00		5.00	305.00	Sft	
	D/d							
	D-3	-1	2.50		7.00	(17.50)	Sft	
	D-4	-6	2.50		5.00	(75.00)	Sft	
						Total	932.60	Sft
	Marble							
17	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.							
	i) China Verona							
	W-1	3	6.00	0.75		13.50	Sft	
	W-2	1	4.00	0.75		3.00	Sft	
	W-3	1	3.00	0.75		2.25	Sft	
	V-1	8	2.00	0.75		12.00	Sft	
	Kitchen	1	25.00	2.00		50.00	Sft	
						Total	80.75	Sft
	Slab Plaster							
18	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)							
		1	1,170.00	1.00		1,170.00	Sft	
						Total	11.70	%Sft
	Cement Plaster							
19	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick							
	Office wall 9" Thick Wall	2	230.50		11.00	5,071.00	Sft	
	Center wall 4-1/2" Thick Wall	2	83.00		11.00	1,826.00	Sft	
	D/d outer wall	-1	162.50		11.00	(1,787.50)	Sft	
	D/d Doors and Window							
	D-1	-3	3.50		7.00	(73.50)	Sft	

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SUPERVISION IN 16 CITIES OF PUNJAB

ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	D-2	-3	3.00		7.00	(63.00)	Sft
	D-3	-1	2.50		7.00	(17.50)	Sft
	D-4	-6	2.50		5.00	(75.00)	Sft
	DW-1	-1	8.00		8.50	(68.00)	Sft
	W-1	-3	6.00		4.00	(72.00)	Sft
	W-2	-1	4.00		4.00	(16.00)	Sft
	W-3	-1	3.00		3.50	(10.50)	Sft
	V-1	-8	2.00		2.00	(32.00)	Sft
					Total	4,682.00	Sft
					Total	46.82	%Sft
	Pointing						
20	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	162.50		12.00	1,950.00	Sft
					Total	19.50	%Sft
21	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.				Total	19.50	%Sft
	Distempering						
22	Distempering:-						
	iii) three coats						
	Office wall 9" Thick Wall	2	230.50		11.00	5,071.00	Sft
	Center wall 4-1/2" Thick Wall	2	83.00		11.00	1,826.00	Sft
	D/d outer wall	-1	162.50		11.00	(1,787.50)	Sft
	Slab	1	1,170.00	1.00		1,170.00	Sft
	D/d Doors and Window						
	D-1	-3	3.50		7.00	(73.50)	Sft
	D-2	-3	3.00		7.00	(63.00)	Sft
	D-3	-1	2.50		7.00	(17.50)	Sft
	D-4	-6	2.50		5.00	(75.00)	Sft
	DW-1	-1	8.00		8.50	(68.00)	Sft
	W-1	-3	6.00		4.00	(72.00)	Sft
	W-2	-1	4.00		4.00	(16.00)	Sft
	W-3	-1	3.00		3.50	(10.50)	Sft
	V-1	-8	2.00		2.00	(32.00)	Sft
					Total	5,852.00	Sft
					Total	58.52	%Sft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wooden Door						
23	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.						
	D-1	3	3.50		7.00	73.50	Sft
	D-2	3	3.00		7.00	63.00	Sft
	D-3	1	2.50		7.00	17.50	Sft
	D-4	6	2.50		5.00	75.00	Sft
					Total	229.00	Sft
24	Providing and fixing all types of partly fixed and partly openable glazed anodised/ powder coated aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge						
	DW-1	1	8.00		8.50	68.00	Sft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Formica Sheet						
25	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.						
	D-4	6	2.50		5.00	75.00	Sft
26	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge						
	(ii) 10.50 " wide						
	D-1	3	17.50	0.875		45.94	Sft
	D-2	3	17.00	0.875		44.63	Sft
	D-3	1	16.50	0.875		14.44	Sft
					Total	105.00	Sft
27	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.						
	b) Deodar wood						
	D-4	6	12.50	0.46		34.38	Sft
					Total	34.38	Sft
28	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	12	2.50			30.00	Rft
29	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.						
	b) Deodar wood architrave						
	D-1	3	17.50	0.25		13.13	Sft
	D-2	3	17.00	0.25		12.75	Sft
	D-3	1	16.50	0.25		4.13	Sft
					Total	30.00	Sft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Lock						
30	Providing and fixing, approved quality mortice lock.	13				13.00	Each
	Paint						
31	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Two coat				Total	4.58	Sft
	Aluminium Window						
32	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge						
	W-1	3	6.00		4.00	72.00	Sft
	W-2	1	4.00		4.00	16.00	Sft
	W-3	1	3.00		3.50	10.50	Sft
	V-1	8	2.00		2.00	32.00	Sft
					Total	130.50	Sft
	Roof Insulation						
33	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.						
	Roof area	1	1,285.00	1.00		1,285.00	Sft
					Total	1,285.00	Sft
					Total	12.85	%Sft
34	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	2,570.00	Sft

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DETAILED COST ESTIMATE

ADMIN BLOCK

PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	2.00	2,235.35	4,471
2	19-3	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	Each	2.00	20,022.90	40,046
3	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc.				
		i) white	Each	2.00	2,666.60	5,333
4	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	4.00	5,187.45	20,750
5	19-8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	1.00	6,422.50	6,423
6	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	5.00	2,231.50	11,158
7	19-16	Providing and fixing, chromium plated soap dish.	Each	4.00	280.40	1,122
8	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	4.00	642.30	2,569
9	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	4.00	1,017.20	4,069
10	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	12.00	957.20	11,486
11	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-				

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DETAILED COST ESTIMATE

ADMIN BLOCK

PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		i) 10x5 cm (4"x2")	Each	7.00	634.55	4,442
12	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	2.00	1,141.10	2,282
13	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	9.00	288.65	2,598
		PPRC Pipe				
14	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular /Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 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				
		(i) (1/2") 20 mm	Rft	75.00	48.20	3,615
		(ii) (3/4") 25 mm	Rft	70.00	66.60	4,662
		(iii) (1") 32 mm	Rft	20.00	107.05	2,141
		(iv) (1-1/4") 40 mm	Rft	25.00	161.45	4,036
		G.I Pipe on Roof				
15	23-23	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves.				
		iii) Heavy Quality				
		c) 1" i/d (25 mm) 4.05mm thick	Rft	75.00	413.90	31,043
		Valve				
16	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	2.00	1,447.20	2,894
		iii) 1" dia	Each	2.00	1,687.20	3,374

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ADMIN BLOCK

PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		uPVC Pipe				
17	19-47	Providing, fixing, testing and commissioning of u-PVC (Unplasticized polyvinyl Chloride)Nikasi /waste pipe make of dadex/Popular/Beta/BBJ 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 41/SN-4)				
		(iii) 2"(60 mm)	Rft	20.00	88.65	1,773
		(v) 4"(110 mm)	Rft	100.00	217.40	21,740
		(vi) 6"(160 mm)	Rft	10.00	398.50	3,985
		HDPE Tank				
18	19/51	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.	P.Gln	500	106.75	53,375
		Total Rs. (A)				249,386
		Non-Schedule Item				
19	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	1.00	18,622.42	18,622
		Total Rs. (B)				18,622
		Total Amount Rs. (A + B)				268,008

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DETAILED COST ESTIMATE

ADMIN BUILDING

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	560.00	83.70	46,872
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	220.00	96.85	21,307
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	1,150.00	26.10	30,015
4	C-24/10a.ii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	120.00	22.10	4,938
	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	450.00	41.15	18,518
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	12.00	277.20	3,326
6	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	380.60	761

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DETAILED COST ESTIMATE

ADMIN BUILDING

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
7	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	14.00	88.70	1,242
8	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	16.00	151.10	2,418
9	C-24/43-i	Double rod (80 watts) with two chokes and 2 starters.	Each	20.00	2,181.65	43,633
10	C-24/43-ii	Single rod (40 watts) with one choke and one starter.	Each	11	1,235.30	13,588
11	C-24/102/a	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	5.00	3,134.75	15,674
		Sub Total (A)				202,292
12	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	3.00	7,000.00	21,000
		Sub Total (B)				21,000
		Sub Total (A+B)				223,292

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 75' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	2.70	10,712.60	28,924
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	3,076.00	9.25	28,453
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	1.69	28,986.90	48,988
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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 C (nominal mix 1: 2: 4)	P.Cft	1,042.88	457.75	477,376

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 75' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	59.62	31,781.75	1,894,828
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	24.00	2,943.30	70,639
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	7.92	19,592.10	155,169
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	7.92	28,035.69	222,043

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 75' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	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)				
		c) 80-mm thick	Per Sft	2,400.00	192.80	462,720
10	1/1	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 190 Km)	Cft	1,077.89	114.04	122,925
		Parking Shed				
11	N.S	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	2,400.00	2,270.00	5,448,000
		Total Rs.				8,960,066

PUNJAB CITIES PROGRAM (PCP)
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PARKING SHED (SIZE 75' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	4	13.00	13.00	4.00	2,704.00	Cft
					Total	2,704.00	Cft
					Total	2.70	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	75.00	32.00		2,400.00	Sft
	Columns	4	13.00	13.00		676.00	Sft
					Total	3,076.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	4	13.00	13.00	0.25	169.00	Cft
					Total	169.00	Cft
					Total	1.69	%Cft

**PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 75' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	75.00	32.00	0.33	792.00	Cft
					Total	7.92	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	75.00	32.00	0.33	792.00	Cft
					Total	7.92	%Cft
9	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)						
	Shed	1	75.00	32.00		2,400	Sft
	Parking Shed						

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 75' x 32')

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	900.00	96.85	87,165
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	20.00	26.10	522
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	1,300.00	41.15	53,495
4	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	1.00	277.20	277
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	1.00	88.70	89
		Sub Total (A)				141,548
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50W with all accessories complete in all respects	Each	2.00	10,900	21,800
		Sub Total (B)				21,800
		Sub Total (A+B)				163,348

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	2.03	10,712.60	21,747
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	2,427.00	9.25	22,450
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	1.27	28,986.90	36,813
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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 C (nominal mix 1: 2: 4)	P.Cft	786.38	457.75	359,963

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	44.96	31,781.75	1,428,907
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	19.20	2,943.30	56,511
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	6.34	19,592.10	124,214
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	6.34	28,035.69	177,746

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	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)				
		c) 80-mm thick	Per Sft	1,920.00	192.80	370,176
10	1/1	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 190 Km)	Cft	812.37	114.04	92,644
		Parking Shed				
11	N.S	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	1,920.00	2,270.00	4,358,400
		Total Rs.				7,049,572

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SUPERVISION IN 16 CITIES OF PUNJAB

PARKING SHED (SIZE 60' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	3	13.00	13.00	4.00	2,028.00	Cft
					Total	2,028.00	Cft
					Total	2.03	%Cft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	60.00	32.00		1,920.00	Sft
	Columns	3	13.00	13.00		507.00	Sft
					Total	2,427.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	3	13.00	13.00	0.25	126.75	Cft
					Total	126.75	Cft
					Total	1.27	%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 60' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	60.00	32.00	0.33	633.60	Cft
					Total	6.34	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	60.00	32.00	0.33	633.60	Cft
					Total	6.34	%Cft
9	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)						
	Shed	1	60.00	32.00		1,920	Sft

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	300.00	96.85	29,055
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	20.00	26.10	522
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	480.00	41.15	19,752
4	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	1.00	277.20	277
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	1.00	88.70	89
		Sub Total (A)				49,695
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50W with all accessories complete in all respects	Each	2.00	10,900	21,800
		Sub Total (B)				21,800
		Sub Total (A+B)				71,495

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 96' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.98	10,712.60	10,498
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	1,781.00	9.25	16,474
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.61	28,986.90	17,682
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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: 2: 4)	P.Cft	347.94	457.75	159,268

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 96' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	19.89	31,781.75	632,139
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	15.36	2,943.30	45,209
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	5.07	19,592.10	99,332
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	5.07	28,035.69	142,141

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 96' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	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)				
		c) 80-mm thick	Per Sft	1,536.00	192.80	296,141
10	1/1	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 190 Km)	Cft	363.99	114.04	41,511
		Parking Shed				
11	N.S	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	1,536.00	2,270.00	3,486,720
		Total Amonut Rs.				4,947,116

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 96' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	5	7.00	7.00	4.00	980.00	Cft
					Total	980.00	Cft
					Total	0.98	%Cft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	96.00	16.00		1,536.00	Sft
	Columns	5	7.00	7.00		245.00	Sft
					Total	1,781.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	5	7.00	7.00	0.25	61.25	Cft
					Total	61.25	Cft
					Total	0.61	%Cft

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 96' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-						
	In Foundation						
	(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:-						
	Columns footing	5	6.50	6.50	1.00	211.25	Cft
	Columns	5	1.50	1.50	5.75	64.69	Cft
	Plinth Beam	1	96.00	0.75	1.00	72.00	Cft
						Total	347.94
							Cft
	Steel Work.						
5	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):-						
	Deformed bars (Grade-60)					347.94	Cft
	Columns @ 12 lbs / Cft		12.00		=	4,175	lbs/cft
				Total	=	4,175	lbs/cft
				Total	=	1,894	Kg.
				Add 5% Wastage.	=	95	Kg.
				Total	=	1,989	Kg
						Total	19.89
							%kg
	Sand Filling						
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	96.00	16.00	1.00	1,536.00	Cft
					Total	1,536.00	Cft
					Total	15.36	%Cft

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 96' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	96.00	16.00	0.33	506.88	Cft
					Total	5.07	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	96.00	16.00	0.33	506.88	Cft
					Total	5.07	%Cft
9	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)						
	Shed	1	96.00	16.00		1,536	Sft
	Parking Shed						

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 96' x 16')

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	220.00	96.85	21,307
2	C-24/10a.i	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). (3.029)	Rft.	20.00	26.10	1,937
3	C-24/10a.iii	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). (7.029)	Rft.	400.00	41.15	10,440
4	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	2.00	380.60	761
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	2.00	88.70	177
		Sub Total (A)				34,623
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50Wwith all accessories complete in all respects	Each	4.00	10,900.00	43,600
		Sub Total (B)				43,600
		Sub Total (A+B)				78,223

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 48' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.59	10,712.60	6,320
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	915.00	9.25	8,464
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.37	28,986.90	10,725
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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 C (nominal mix 1: 2: 4)	P.Cft	201.56	457.75	92,265

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 48' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	11.52	31,781.75	366,126
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	7.68	2,943.30	22,605
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	2.53	19,592.10	49,568
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	2.53	28,035.69	70,930

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 48' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	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)				
		c) 80-mm thick	Per Sft	768.00	190.80	146,534
10	1/1	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 190 Km)	Cft	212.44	114.04	24,227
		Parking Shed				
11	N.S	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	768.00	2,270.00	1,743,360
		Total Amount Rs.				2,541,125
		Cost Of 1 Unit				2,541,125
		Cost Of 2 Unit				5,082,249

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 48' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	3	7.00	7.00	4.00	588.00	Cft
					Total	588.00	Cft
					Total	0.59	%Cft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	48.00	16.00		768.00	Sft
	Columns	3	7.00	7.00		147.00	Sft
					Total	915.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	3	7.00	7.00	0.25	36.75	Cft
					Total	36.75	Cft
					Total	0.37	%Cft

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 48' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	48.00	16.00	0.33	253.44	Cft
					Total	2.53	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	48.00	16.00	0.33	253.44	Cft
					Total	2.53	%Cft
9	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)						
	Shed	1	48.00	16.00		768	Sft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 48' x 16')

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	450.00	96.85	43,583
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	20.00	26.10	522
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	700.00	41.15	28,805
4	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	1.00	277.20	277
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	1.00	88.70	89
		Sub Total (A)				73,275
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50W with all accessories complete in all respects	Each	2.00	10,900	21,800
		Sub Total (B)				21,800
		Cost for One Unit (A+B)				95,075
		Cost for Two Units				190,151

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 24' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.39	10,712.60	4,178
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	482.00	9.25	4,459
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.25	28,986.90	7,247
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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 C (nominal mix 1: 2: 4)	P.Cft	128.38	457.75	58,764

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 24' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	7.34	31,781.75	233,278
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	3.84	2,943.30	11,302
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.27	19,592.10	24,882
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.27	28,035.69	35,605

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 24' x 16')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	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)				
		c) 80-mm thick	Per Sft	384.00	190.80	73,267
10	1/1	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 190 Km)	Cft	136.66	114.04	15,585
		Parking Shed				
11	N.S	Providing, laying and fixing in position Pre-Engineered shed as per drawings and manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick (50-60 gm/sqm) fixed with rivet and bolts over GI Purlins 200x6 (OSF) 200 to 500 (Web)X4 200X6 (ISF) as shown in drawing No. ST-14 with approved Colour/ paint fitted with J-Type bolt having length 500 mm as shown in drawing. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought from Engineer Incharge prior to placement of order.	Sft	384.00	2,270.00	871,680
		Total Amount Rs.				1,340,247
		Cost Of 1 Unit				1,340,247
		Cost Of 2 Unit				2,680,494

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 24' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	2	7.00	7.00	4.00	392.00	Cft
					Total	392.00	Cft
					Total	0.39	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	24.00	16.00		384.00	Sft
	Columns	2	7.00	7.00		98.00	Sft
					Total	482.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	2	7.00	7.00	0.25	24.50	Cft
					Total	24.50	Cft
					Total	0.25	%Cft

**PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 24' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-						
	In Foundation						
	(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:-						
	Columns footing	2	6.50	6.50	1.00	84.50	Cft
	Columns	2	1.50	1.50	5.75	25.88	Cft
	Plinth Beam	1	24.00	0.75	1.00	18.00	Cft
					Total	128.38	Cft
	Steel Work.						
5	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):-						
	Deformed bars (Grade-60)					128.38	Cft
	Columns @ 12 lbs / Cft		12.00		=	1,541	lbs/cft
				Total	=	1,541	lbs/cft
				Total	=	699	Kg.
				Add 5% Wastage.	=	35	Kg.
				Total	=	734	Kg
				Total		7.34	%kg
	Sand Filling						
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	24.00	16.00	1.00	384.00	Cft
					Total	384.00	Cft
					Total	3.84	%Cft

**PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 24' x 16')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	24.00	16.00	0.33	126.72	Cft
					Total	1.27	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	24.00	16.00	0.33	126.72	Cft
					Total	1.27	%Cft
9	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)						
	Shed	1	24.00	16.00		384	Sft

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 24' x 16)

ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	210.00	96.85	20,339
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	20.00	26.10	522
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	390.00	41.15	16,049
4	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	1.00	380.60	381
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	1.00	88.70	89
		Sub Total (A)				37,378
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50W with all accessories complete in all respects	Each	1.00	10,900	10,900
		Sub Total (B)				10,900
		Cost for One Unit (A+B)				48,278
		Cost for Two Units				96,557

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DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.94	10,712.60	10,070
		Sand Filling				
2	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	1.26	2,944.60	3,710
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	1.25	38,271.80	47,840
		(i) Ratio 1: 4: 8	100 Cft	3.21	29,079.80	93,346
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:4	100 Cft	8.02	32,829.60	263,293
		Concrete Work				
5	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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 C (nominal mix 1: 2: 4)	P.Cft	541.04	456.85	247,173

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DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Above foundation				
		(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)	P.Cft	281.70	556.50	156,766
		Steel Work.				
6	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	24.68	31,781.75	784,440
		Plaster				
7	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:-				
		b) ½" (13 mm) thick	100 Sft	2.83	3,424.50	9,691
		Mosaic flooring				
8	10/22/a	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 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 floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-				
		(a) using grey cement	100 Sft	1.05	19,693.95	20,679

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Mosaic dado or skirting				
9	10/37	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:				
		(a) using grey cement:				
		ii) ½"(13 mm) thick	100 Sft	2.83	21,441.10	60,678
		M.S Grating				
10	18/23	Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	Sft	60.00	1,663.30	99,798
11	1/1	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 190 Km)	Cft	1,138.22	114.04	129,805
		Total Amount Rs.				1,927,290

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WASHING PIT

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Washing Pit	1	37.50	10.17	2.00	762.75	Cft
	Drain	1	60.00	2.00	1.50	180.00	Cft
						Total	0.94 %Cft
2	Supplying and filling sand under floor; or plugging in wells.	1	37.50	10.17	0.33	125.85	Cft
						Total	1.26 %Cft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	For Plinth	1	100.00	5.00	0.25	125.00	Cft
						Total	1.25 %Cft
	(i) Ratio 1: 4: 8						
	Washing Pit	1	37.50	10.17	0.33	125.85	Cft
	For Plinth	1	100.00	5.00	0.33	165.00	Cft
	Drain	1	60.00	2.00	0.25	30.00	Cft
						Total	3.21 %Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:4						
	Washing Pit						
	Step - 1	1	13.00	1.875	0.50	12.19	Cft
	Step - 2	1	13.00	1.500	0.50	9.75	Cft
	Step - 3	1	13.00	1.125	5.50	80.44	Cft
	Side walls	2	20.00	3.500	3.50	490.00	Cft
		2	15.00	3.500	2.00	210.00	Cft
						Total	802.38 Cft
						Total	8.02 %Cft

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SUPERVISION IN 16 CITIES OF PUNJAB

WASHING PIT

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
5	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-						
	In Foundation						
	(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 C (nominal mix 1: 2: 4)						
	Washing Pit RCC Slab	1	36.00	9.50	1.50	513.00	Cft
	Drain	1	60.00	1.42	0.33	28.04	Cft
					Total	541.04	Cft
	Above foundation						
	(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)						
	Washing Pit on Walls	2	36.00	3.50	1.00	252.00	Cft
	Drain	2	60.00	0.33	0.75	29.70	Cft
					Total	281.70	Cft
	Steel Work.						
6	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):-						
	Deformed bars (Grade-60)				Total	823	Cft
	Total Concrete 3kg/cft		3			2,468	Kg
					Total	24.68	%Kg

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SUPERVISION IN 16 CITIES OF PUNJAB

WASHING PIT

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Plaster						
7	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick						
	Wall	1	15.00		5.50	82.50	Sft
	Side Wall	2	20.00		3.50	140.00	Sft
		2	15.00		2.00	60.00	Sft
					Total	282.50	Sft
					Total	2.83	%Sft
	Mosaic flooring						
8	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 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 floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-						
	(a) using grey cement	1	35.00	3.00		105.00	Sft
						Total	1.05
							%Sft
	Mosaic dado or skirting						
9	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:						
		1	15.00		5.50	82.50	Sft
		2	20.00		3.50	140.00	Sft
		2	15.00		2.00	60.00	Sft
					Total	282.50	Sft
					Total	2.83	%Sft

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranjwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		BOUNDARY WALL				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	5.27	10,712.60	56,455
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	5,645.00	9.25	52,216
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	8.58	28,986.90	248,708
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	35.32	31,875.60	1,125,846
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	4.05	8,642.10	35,001
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	6.95	6,299.20	43,779
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	25.32	34,090.60	863,174
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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:-				
		(3) Type C (nominal mix 1: 2: 4)	P.Cft	18.00	572.70	10,309
		Above foundation				
		(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)	P.Cft	25.50	556.50	14,191
		Steel Work.				
9	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	2.49	31,808.25	79,203

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Cement Plaster				
10	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	32.43	4,437.45	143,907
		Pointing				
11	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:- a) ratio 1:2	100 Sft	32.43	3,575.35	115,949
12	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	32.43	669.00	21,696
		Distempering				
13	11/23	Distempering:- iii) three coats	100 Sft	29.75	1,309.95	38,971
		Main Gate				
14	25/30	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre.	Sft	56.00	1,933.45	108,273
		Painting new surface:-				
15	13/5/d	d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:-				
		i) priming coat.	100 Sft	1.12	841.35	942
		ii) each subsequent coat of paint.	100 Sft	1.12	497.25	557
16	1/1	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 190 Km)	Cft	851.41	114.04	97,097
		Total Rs. "A"				3,056,272

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EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranjwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
		Borrow Earth				
17	3/5/i + 3/17	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.	1000Cft	16.67	17,256.33	287,663
		Sub Base Course				
18	18/3/a/ (ii) + 1/1	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Dina quarry to site, actual compacted depth shall be considered for payment)	100Cft	54.99	19,592.10	1,077,370

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
19	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	54.99	28,035.69	1,541,682
		Tuff Paver				
20	10/41	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)				
		c) 80-mm thick	Per Sft	16,665.00	190.80	3,179,682
		Kerb Stone				
21	6/52	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect.				
		b) With Painting				
		(i) 14" high	Rft	100.00	516.90	51,690
22	3/32	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	Sft	8.50	1,848.00	15,708
		Total Rs. "B"				6,153,795
		Total Rs. "A+B"				9,210,067

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	BOUNDARY WALL						
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Boundary wall	1	425.00	3.00	3.00	3,825.00	Cft
	Boundary wall Columns	34	3.50	3.50	3.00	1,249.50	Cft
	Columns	4	3.50	3.50	4.00	196.00	Cft
					Total	5,270.50	Cft
					Total	5.27	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Boundary wall	1	425.00	9.00		3,825.00	Sft
	Boundary wall Columns	34	3.50	9.50		1,130.50	Sft
		34	3.50	3.50		416.50	Sft
	Columns	4	14.00	4.00		224.00	Sft
		4	3.50	3.50		49.00	Sft
					Total	5,645.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Boundary wall	1	425.00	3.00	0.50	637.50	Cft
	Boundary wall Columns	34	3.50	3.50	0.50	208.25	Cft
	Columns	4	3.50	3.50	0.25	12.25	Cft
					Total	858.00	Cft
					Total	8.58	%Cft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						
	Boundary wall						
	Step - 1	1	425.00	2.625	0.50	557.81	Cft
	Step - 2	1	425.00	2.250	0.50	478.13	Cft
	Step - 3	1	425.00	1.875	0.50	398.44	Cft
	Step - 4	1	425.00	1.500	0.50	318.75	Cft
	Step - 5	1	425.00	1.125	0.50	239.06	Cft
	Step - 6	1	425.00	0.750	3.00	956.25	Cft
	Boundary wall Columns						
	Step - 1	34	3.00	3.00	0.50	153.00	Cft
	Step - 2	34	2.63	2.63	0.50	117.14	Cft
	Step - 3	34	2.25	2.25	0.50	86.06	Cft
	Step - 4	34	1.88	1.88	0.50	59.77	Cft
	Step - 5	34	1.50	1.50	0.50	38.25	Cft
	Step - 6	34	1.13	1.13	3.00	129.09	Cft
					Total	3,531.75	Cft
					Total	35.32	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Boundary wall	1	425.00	0.75		318.75	Sft
	Boundary wall Columns	68	1.13	1.13		86.06	Sft
					Total	404.81	Sft
					Total	4.05	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Boundary wall	1	425.00		1.50	637.50	Sft
	Boundary wall Columns	34	1.13		1.50	57.38	Sft
					Total	694.88	Sft
					Total	6.95	%Sft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Steel Work.						
9	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):-						
	Deformed bars (Grade-60)					43.50	Cft
	Columns @ 12 lbs / Cft		12.00		=	522.00	lbs/cft
				Total	=	522.00	lbs/cft
				Total	=	236.84	Kg.
			Add 5% Wastage.		=	11.84	Kg.
				Total	=	249	Kg
						Total	2.49 %kg
	Cement Plaster						
10	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Boundary wall	1	425.00		7.00	2,975.00	Sft
	Boundary wall Columns	34	1.13		7.00	267.75	Sft
					Total	3,242.75	Sft
						Total	32.43 %Sft
	Pointing						
11	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-						
	a) ratio 1:2						
	Outer Walls	1	425.00		7.00	2,975.00	Sft
	Boundary wall Columns	34	1.13		7.00	267.75	Sft
					Total	3,242.75	Sft
						Total	32.43 %Sft
12	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
						Total	32.43 %Sft
	Distempering						
13	Distempering:-						
	iii) three coats						
	Boundary wall	1	425.00		7.00	2,975.00	Sft
					Total	2,975.00	Sft
						Total	29.75 %Sft

**PUNJAB CITIES PROGRAM (PCP)
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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Main Gate						
14	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre.	2	4.00		7.00	56.00	Sft
	Painting new surface:-						
15	d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:-						
	i) priming coat.					1.12	%Sft
	ii) each subsequent coat of paint.					1.12	%Sft
	Tuff Paver						
	Borrow Earth						
16	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.		Area				
	Total Area	1	16,665	1.00	1.00	16,665	Cft
					Total	16,665	Cft
					Total	16.67	%oCft
	Sub Base Course						
17	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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Dina quarry to site, actual compacted depth shall be considered for payment)						
		1	16,665	1.00	0.33	5,499.45	Cft
					Total	54.99	%Cft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Water Bound Macadam						
18	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
		1	16,665	1.00	0.33	5,499.45	Cft
					Total	54.99	%Cft
	Tuff Paver						
19	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)						
	c) 80-mm thick	1	16,665	1.00		16,665	Sft
20	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect.						
	b) With Painting						
	(i) 14" high	1	100			100	Rft
21	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	1	850	1.00		850.00	Sft
					Total	8.50	%Sft

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DETAILED COST ESTIMATE

EJECTOR PUMP

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Ejector Pump				
1	23/45/ii	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	1.00	17,905.90	17,906
		Boring				
2	23/1	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:-				
		c) 5" (125 mm) i/d	Rft	100.00	581.05	58,105
3	23/2	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 100.1 ft. to 200 ft. (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete:-				
		a) 5" (125 mm) i/d	Rft	100.00	973.80	97,380
4	23/16	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.				
		b) 4" i/d (100 mm)	Rft	50.00	483.60	24,180
5	23/17	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) 1½" i/d (40 mm)	Rft	200.00	158.25	31,650
		c) 2" i/d (50 mm)	Rft	70.00	230.00	16,100
6	23/11	Providing and installing, P.V.C. strainer B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents, etc. complete:-				
		a) 3" i/d (75 mm)	Rft	30.00	174.70	5,241

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DETAILED COST ESTIMATE

EJECTOR PUMP

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
7	23/14	Providing and installing P.V.C. Bail/End plug, in tubewell bore hole:-				
		a) B.S.S. Class `B'				
		i) 3" i/d (75 mm)	Rft	1.00	86.25	86
		Total Amount Rs.				250,648

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/44	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000Cft	0.81	7,622.75	6,136
		HDPE Pipe				
2	23-43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects				
		c) PN-10 (SDR-17)				
		1) 25 mm	Rft	30.00	27.45	824
		3) 40 mm	Rft	50.00	53.10	2,655
		4) 50 mm	Rft	35.00	78.65	2,753
		Valve				
3	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	1.00	1,434.00	1,434
		v) 1-1/2" dia	Each	1.00	2,130.00	2,130
		vi) 2" dia	Each	1.00	2,550.00	2,550
		Under Ground Water Tank				
		Excavation				
4	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.89	10,712.60	9,534

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
5	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.42	29,723.50	12,484
		Concrete Work				
6	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-				
		In Foundation				
		(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:-				
		(3) Type C (nominal mix 1: 2: 4)	P.Cft	85.28	457.75	39,035
		(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)	P.Cft	278.09	556.50	154,758
		Steel Work.				
7	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	10.90	31,781.75	346,454

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		RCC Manhole Cover				
8	21/16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	1.00	15,105.75	15,106
		Angle Iron Step				
9	21/13	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	6.00	590.55	3,543
10	1/1	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 165 Km)	Cft	359.57	114.04	41,006
		Pump				
11	N.S	Providing, installing, Fixing and commisioning of reciprocating pump with a capacity of 30 USGPM against a total head of 90 ft Cast Iron, Cylinder & Piston Rod in S.S., Crank Shaft in super finish S.G. Iron, Gland Nut in Brass and abrasion proof silently working Valves fitted on easily Feat accessible S.S., ABS or Cast Iron Valve Plate with Brass Seats, All Gaskets are in Rubber and Rocker Rail in Galvanized Mild Steel with Insulation Bushes complete system installed upto satisfaction of engineer in charge, complete in all respects	Each	1.00	20,000	20,000
		Total Rs				660,402

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.						
	Water supply Pipe	1	115.00	2.00	3.50	805.00	Cft
						Total	0.81 %oCft
	HDPE Pipe						
2	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects						
	c) PN-10 (SDR-17)						
	1) 25 mm	1	30.00			30.00	Rft
	3) 40 mm	1	50.00			50.00	Rft
	4) 50 mm	1	35.00			35.00	Rft
	Valve						
3	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.						
	ii) 3/4" dia	1				1.00	Nos.
	v) 1-1/2" dia	1				1.00	Nos.
	vi) 2" dia	1				1.00	Nos.
	Under Ground Water Tank						
	Excavation						
4	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	a) By Manual						
	ii) in ordinary soil.	1	12.33	10.33	7.00	890.95	Cft
						Total	0.89 %oCft
	Plain Cement Concrete						
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	(i) Ratio 1: 4: 8	1	12.33	10.33	0.33	42.00	Cft
					Total	0.42	%Cft
	Concrete Work						
6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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.):-						
	In Foundation						
	(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:-						
	(3) Type C (nominal mix 1: 2: 4)	1	12.33	10.33	0.67	85.28	Cft
	(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)						
	Walls	1	38.66	0.67	8.00	207.24	Cft
	Top Slab	1	11.33	9.33	0.67	70.85	Cft
					Total	278.09	Cft

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Steel Work.						
7	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):-						
	Deformed bars (Grade-60) (3 kg/cft)				Total	1,090.10	Kg
	RCC Manhole Cover						
8	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	1				1.00	Nos
	Angle Iron Step						
9	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.	6				6.00	Nos.

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DETAILED COST ESTIMATE

EXTERNAL SEWERAGE SYSTEM

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	3.28	11,740.40	38,523
		Sand Filling				
2	21/24	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.	100Cft	9.38	3,789.85	35,530
		uPVC Pipe				
3	19/48	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, 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.				
		a) Type (SDR 34/SN-8)				
		i) 6" dia 150mm	Rft	300.00	1,143.35	343,005
		ii) 8" dia 200 mm	Rft	75.00	1,722.60	129,195
4	N.S Rate Analysis	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	6.00	18,622.42	111,735
		Total Rs				657,988

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

EXTERNAL SEWERAGE SYSTEM

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	uPVC pipe	1	375.00	2.50	3.50	3,281.25	Cft
					Total	3.28	%oCft
	Sand Filling						
2	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.						
		1	375.00	2.50	1.00	937.50	Cft
					Total	9.38	%Cft
	uPVC Pipe						
3	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, 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.						
	a) Type (SDR 34/SN-8)						
	i) 6" dia 150mm	1	300.00			300.00	Rft
	ii) 8" dia 200 mm	1	75.00			75.00	Rft
4	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	6				6.00	Nos.

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DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranjwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	0.33	11,770.45	3,884
		Plain Cement Concrete				
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.08	38,271.80	3,062
		(i) Ratio 1: 4: 8	100 Cft	0.27	29,079.80	7,852
		Brick work				
3	7/7/i	Pacca brick work other than building upto 10ft. (3 m)				
		Ratio 1:3	100 Cft	2.28	35,372.90	80,650
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	16.88	556.05	9,383

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DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	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):-				
		Deformed bars (Grade-60)	100kg	0.42	31,808.25	13,419
		Cement Pointing				
6	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100Sft	2.64	3,575.35	9,439
		RCC Manhole Cover				
7	21/16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	2.00	11,564.50	23,129
		Angle Iron Step				
8	21/13	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	594.45	8,322
9	1/1	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 165 Km)	Cft	47.48	114.04	5,414
		Total Amount Rs.				164,555

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SEPTIC TANK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	Septic tank	1	8.50	5.50	7.00	327.25	Cft
					Total	327.25	Cft
					Total	0.33	%Cft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	3	1.75	3.00	0.50	7.88	Cft
					Total	7.88	Cft
					Total	0.08	%Cft
	(i) Ratio 1: 4: 8						
	Septic tank	3	1.75	3.00	0.33	5.25	Cft
	Outer Wall	1	24.00	2.00	0.33	16.00	Cft
	Baffle wall	2	6.00	1.50	0.33	6.00	Cft
					Total	27.25	Cft
					Total	0.27	%Cft
	Brick work						
3	Pacca brick work other than building upto 10ft. (3 m)						
	Ratio 1:3						
	Outer wall	1	24.00	1.88	0.50	22.50	Cft
		1	24.00	1.50	0.50	18.00	Cft
		1	24.00	1.13	0.50	13.50	Cft
		1	24.00	0.75	8.00	144.00	Cft
	Baffle wall	2	3.00	1.13	0.50	3.38	Cft
		2	3.00	0.75	6.00	27.00	Cft
					Total	228.38	Cft
					Total	2.28	%Cft

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SEPTIC TANK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	Providing and laying reinforced cement concrete (including prestressed concrete), using 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:-						
	Type C (nominal mix 1: 2: 4)	1	7.50	4.50	0.50	16.88	Cft
	Steel Work.						
5	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):-						
	Deformed bars (Grade-60)		2.50 kg/cft			42.19	Kg
					Total	0.42	%Kg
	Cement Pointing						
6	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2	1	24.00		8.00	192.00	Sft
		4	3.00		6.00	72.00	Sft
					Total	264.00	Sft
					Total	2.64	%Sft
	RCC Manhole Cover						
7	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	2				2.00	Nos.

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DETAILED COST ESTIMATE

EXTERNAL DRAINAGE SYSTEM

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	1.97	11,770.45	23,173
		Sand Filling				
2	21/24	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.	100Cft	5.63	3,793.80	21,340
		uPVC Pipe				
3	19/48	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, 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.				
		a) Type (SDR 34/SN-8)				
		i) 6" dia 150mm	Rft	150.00	1,143.75	171,563
		ii) 8" dia 200 mm	Rft	75.00	1,722.60	129,195
4	Rate Analysis	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	2.00	18,622.42	37,245
		Total Rs				382,516

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DETAILED COST ESTIMATE

EXTERNAL DRAINAGE SYSTEM

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	uPVC pipe	1	225.00	2.50	3.50	1,968.75	Cft
					Total	1.97	%oCft
	Sand Filling						
2	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.						
		1	225.00	2.50	1.00	562.50	Cft
					Total	5.63	%Cft
	uPVC Pipe						
3	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, 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.						
	a) Type (SDR 34/SN-8)						
	i) 6" dia 150mm	1	150.00			150.00	Rft
	ii) 8" dia 200 mm	1	75.00			75.00	Rft
4	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	2				2.00	Nos.

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DETAILED COST ESTIMATE

SILT HOLDING TANK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		SILT HOLDING TANK				
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	0.32	11,740.45	3,757
		Plain Cement Concrete				
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.05	38,271.80	1,914
		(i) Ratio 1: 4: 8	100 Cft	0.13	29,079.80	3,780
		Concrete Work				
3	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	127.13	556.50	70,745
		Steel Work.				
4	6/12/c	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):-				

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DETAILED COST ESTIMATE

SILT HOLDING TANK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Deformed bars (Grade-60)	100kg	3.81	31,808.25	121,309
		C.I Cover				
5	19/40	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	Each	1.00	2,758.95	2,759
		Angle Iron Step				
6	21/13	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	5.00	594.45	2,972
		C.I Vent Pipe				
7	23/21	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with flanged and flanged joints, complete in all respects:-				
		a) 3" (75 mm) i/d	Rft	5.00	1,148.85	5,744
8	1/1	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 165 Km)	Cft	124.19	114.04	14,163
		Total Rs				227,143

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DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	SILT HOLDING TANK						
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
		1	8.00	5.00	8.00	320.00	Cft
					Total	0.32	%oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	1	6.00	3.00	0.25	4.50	Cft
					Total	0.05	%Cft
	(i) Ratio 1: 4: 8	1	8.00	5.00	0.33	13.20	Cft
					Total	0.13	%Cft
	Concrete Work						
3	Providing and laying reinforced cement concrete (including prestressed concrete), using 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:-						
	Type C (nominal mix 1: 2: 4)						
	Walls	1	21.00	0.75	7.00	110.25	Cft
	Top Slab	1	7.50	4.50	0.50	16.88	Cft
					Total	127.13	Cft
	Steel Work.						

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EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
4	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):-						
	Deformed bars (Grade-60) (3 kg/cft)				Total	381.38	Kg
	C.I Cover						
5	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	1				1.00	Nos
	Angle Iron Step						
6	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.	5				5.00	Nos.

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		Scheduled Items (A)				
		Excavation				
1	3/21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	3.29	10,712.60	35,287
		RCC Foundation for Poles				
2	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using 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)(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:-				
		(3) Type C (nominal mix 1: 2: 4)	Cft	144.00	456.85	65,786
		Steel Work				
3	6/12/b	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 (Grade-40)	100Kg	3.60	15,960.60	57,458
4	24/13b.iii	Supply and erection of 3 core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	200.00	105.65	21,130
5	24/6i	Supply and erection PVC pipe for recessed wiring				

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		i) 50 mm i/d	Rft	1,300.00	188.45	244,985
6	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-				
		ii) 6 mm sq (7/0.044")	Rft	900.00	118.20	106,380
		iv) 16 mm sq (7/0.064")	Rft	100.00	174.50	17,450
7	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire / trenches, etc. (rate for cable only):-				
		b) PVC insulated, PVC sheathed twin core, 600/1000 volts.				
		v) 7/1.12 mm (7/0.044")	Rft	900.00	247.40	222,660
		vi) 7/1.63 mm (7/0.064")	Rft	20.00	496.65	9,933
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	750.00	524.50	393,375
		vii) 16mm (7/0.064")	Rft	100.00	643.55	64,355
8	24/68	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel ,tapered from 225 mm at bottom to 100 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet,with built in junction box with shutter,i/c the cost of nuts & J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.				
		a) Single Arm				
		(i) 10 mtr height	Each	4.00	106,327.30	425,309
		b) Double Arm				
		(i) 10 mtr height	Each	3.00	109,969.30	329,908

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EXTERNAL ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	24/69	Supplying, installation and commissioning of LED Cobra-head Luminaries of specified wattage and lumens conforming to IP 65, Philips/Osram/Thorn with corrosion resistant die casted aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection i/c the cost of all accessories/components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as approved and directed by the Engineer Incharge.				
		c) 120 Lm/Watt				
		(vi) 120 Watt with 14400 Lumens	Each	10.00	53,307.60	533,076
10	24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
		b) three phase, 4 wires:				
		iii) 3x80 Amp, 400 volts	Each	1.00	14,693.25	14,693
11	24/86	Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		a) Single Pole				
		(ii) 6-40 Amp (6 KA)				
		DB admin block	Each	14.00	1,103.05	15,443
		DB EXT, Shed-1 &2	Each	6.00	1,103.05	6,618
		Shed-3,4,5,6 &7	Each	12.00	1,103.05	13,237
		b) Double Pole				
		(ii) 6-40 Amp (6 KA)	Each			
		DB admin block and shed-1	Each	1.00	3,353.05	3,353
		DB GR,EXT, Shed-2 &3	Each	3.00	3,353.05	10,059
		MPB	Each	-	3,353.05	-
		c) Tripple Pole				
		(ii) 6-40 Amp (6 KA)				
		All DBs	Each		6,754.30	-
		(iii) 6-63 Amp (10 KA)				
		MPB & All DBs	Each	11.00	8,434.30	92,777

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
13	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & 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).				
		(a) 6" deep				
		(i) 20~60A				

PUNJAB CITIES PROGRAM (PCP)
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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		DB admin block	Cft	1.50	18,691.40	28,037
		DB EXT,Shed-1 &2	Cft	1.50	18,691.40	28,037
		Shed-3,4,5,6 &7	Cft	1.50	18,691.40	28,037
		MPB	Cft	2.50	18,691.40	46,729
14	24/105/iii	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge				
		(ii) 25 KVA	Each	1.00	329,622.55	329,623
15	24/70	Earthing of iron clad/aluminum switches, etc. with G.I. wire No. 8 SWG in G.I. pipe 15 mm (½") dia, recessed or on surface of wall and floor, complete with 1.5 metre long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.	Job	4.00	9,635.35	38,541
16	24/72	Bonding to earth with wire on surface, including cost of wire, clamps, thimbles, etc.				
		a) G.I. wire:				
		i) 8 SWG	Per Rft.	100.00	23.70	2,370
Sub Total Scheduled Items: (A)						3,184,647

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	1st Bi-Annual-2023 (Jan to Jun) Gujranwala	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
17	N.S.	Supply, installation, testing, and comissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.				
		i) Direct of Line (DOL) Starter for 3HP Motor	Set	1.00	45,110	45,110
		ii) Direct of Line (DOL) Starter for 5HP Motor	Set	1.00	57,060	57,060
		Total Cost (Part B)			Rs.	102,170
		Grand Total (Part A + Part B)			Rs.	3,286,817

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DETAILED COST ESTIMATE

ENVIRONMENTAL HEALTH & SAFETY COST

Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
	Labor Safety				
1	Face Masks (3 PLY) Box	Nos	10.00	700.00	7,000
2	Safety Gum Shoes	Nos	15.00	1,350.00	20,250
3	Hand Gloves	Nos	15.00	245.00	3,675
4	First Aid Box (Including essential Medicine)	Nos	1.00	5,000.00	5,000
5	Safety Hard Helmets MSA	Nos	15.00	2,000.00	30,000
6	Safety Goggles	Nos	15.00	550.00	8,250
7	Reflective Safety Vests	Nos	15.00	550.00	8,250
				Sub Total	82,425
	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	2.00	10,000.00	20,000
2	Reflective Safety Barricading Tape	Nos	2.00	1,500.00	3,000
3	Fire Extinguishers DCP	Nos	1.00	7,000.00	7,000
				Sub Total	30,000
	Total Amount (Rs)				112,425

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

DISMANTLING WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
1		Overhead Water Tank (Size 45 x 45 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	25.82	4,330.90	111,818
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	102.21	18,342.70	1,874,804
3	4/32	a) Removing door with chowkat.	No.	1.00	448.45	448
4	4/32	b) Removing windows and sky lights with chowkat.	No.	2.00	350.45	701
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	5.06	11,209.45	56,748
		Deduction				
6	MR	Deduction of used Steel from original quantity.	Kg	27,825	100.00	(2,782,481)
					Total (A)	(737,962)
2		Room (Size 12 x 12 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	4.59	4,330.90	19,879
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	0.72	18,342.70	13,207
3	4/32	a) Removing door with chowkat.	No.	1.00	448.45	448
4	4/32	b) Removing windows and sky lights with chowkat.	No.	2.00	350.45	701
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.36	11,209.45	4,035
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	6.20	(4,800.00)	(29,743)
					Total (B)	8,527

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

DISMANTLING WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
3		Room (Size 10 x 12 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	4.21	4,330.90	18,222
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	0.60	18,342.70	11,006
3	4/32	a) Removing door with chowkat.	No.	1.00	448.45	448
4	4/32	b) Removing windows and sky lights with chowkat.	No.	2.00	350.45	701
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.30	11,209.45	3,363
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	5.68	(4,800.00)	(27,265)
					Total (C)	6,475
4		Wall				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	6.58	4,330.90	28,503
		Deduction				
2	MR	Deduction of used bricks from original quantity.	1000 No.	8.88	(4,800.00)	(42,647)
					Total (D)	(14,144)
5		Brick Flooring				
		Dismantling				
1	4/29	Dismantling brick or flagged flooring without concrete foundation.	100Sft	21.50	866.20	18,623
		Deduction				
2	MR	Deduction of used bricks from original quantity.	1000 No.	11.40	(4,800.00)	(54,696)
					Total (E)	(36,073)

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

DISMANTLING WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Guiranwala	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
6		Building (Size 37.50 x 29.50 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	25.63	4,330.90	110,990
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	5.53	18,342.70	101,458
3	4/32	a) Removing door with chowkat.	No.	4.00	448.45	1,794
4	4/32	b) Removing windows and sky lights with chowkat.	No.	8.00	350.45	2,804
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	2.77	11,209.45	31,001
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	34.60	(4,800.00)	(166,066)
					Total (F)	81,981
					Total Rs. (A+B+C+D+E+F)	(691,195)

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DISMANTLING WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Overhead Water Tank (Size 45 x 45 ft)						
	Dismantling						
1	Dismantling brick work in lime or cement mortar.						
		1	270	0.75	11.00	2,227.50	Cft
		1	270	1.13	0.50	151.88	Cft
		1	270	1.50	0.50	202.50	Cft
					Total	2,581.88	Cft
					Total	25.82	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
	Room Slabs	1	45.00	45.00	0.50	1,012.50	Cft
	Columns	25	1.00	1.00	70.00	1,750.00	Cft
	Beams	6	450.00	1.00	1.25	3,375.00	Cft
	Beams	1	450.00	1.00	1.25	562.50	Cft
	Water Tank Base Slab	1	48.00	48.00	0.67	1,543.68	Cft
	Top Slab	1	45.00	45.00	0.50	1,012.50	Cft
	Walls	1	180.00	0.67	8.00	964.80	Cft
					Total	102.21	%Cft
3	a) Removing door with chowkat.	1				1.00	No
4	b) Removing windows and sky lights with chowkat.	2				2.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	45.00	45.00	0.25	506.25	Cft
					Total	5.06	%Cft
6	Deduction of used Steel from original quantity.						
	Total Qty.					10,221	Cft
	Concrete @ 6 lbs / Cft		6.00		=	61,326	lbs/cft
				Total	=	27,825	Kg
	Room (Size 12 x 12 ft)						
	Dismantling						
1	Dismantling brick work in lime or cement mortar.	1	48	0.75	11.00	396.00	Cft
		1	48	1.13	0.50	27.00	Cft
		1	48	1.50	0.50	36.00	Cft
					Total	459.00	Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DISMANTLING WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	4.59	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	12.00	12.00	0.50	72.00	Cft
					Total	0.72	%Cft
3	a) Removing door with chowkat.	1				1.00	No
4	b) Removing windows and sky lights with chowkat.	2				2.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	12.00	12.00	0.25	36.00	Cft
					Total	0.36	%Cft
	Room (Size 10 x 12 ft)						
	Dismantling						
1	Dismantling brick work in lime or cement mortar.	1	44	0.75	11.00	363.00	Cft
		1	44	1.13	0.50	24.75	Cft
		1	44	1.50	0.50	33.00	Cft
					Total	420.75	Cft
					Total	4.21	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	12.00	10.00	0.50	60.00	Cft
					Total	0.60	%Cft
3	a) Removing door with chowkat.	1				1.00	No
4	b) Removing windows and sky lights with chowkat.	2				2.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	12.00	10.00	0.25	30.00	Cft
					Total	0.30	%Cft
	Wall						
1	Dismantling						
	Dismantling brick work in lime or cement mortar.	1	90	0.75	8.00	540.00	Cft
		1	90	1.13	0.50	50.63	Cft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

DISMANTLING WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
		1	90	1.50	0.50	67.50	Cft
					Total	658.13	Cft
					Total	6.58	%Cft
	Brick Flooring						
	Dismantling						
1	Dismantling brick or flagged flooring without concrete foundation.						
		1	2,150	1.00		2,150.00	Sft
					Total	21.50	%Sft
	Building (Size 37.50 x 29.50 ft)						
	Dismantling						
1	Dismantling brick work in lime or cement mortar.	1	268	0.75	11.00	2,211.00	Cft
		1	268	1.13	0.50	150.75	Cft
		1	268	1.50	0.50	201.00	Cft
					Total	2,562.75	Cft
					Total	25.63	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	37.50	29.50	0.50	553.13	Cft
					Total	5.53	%Cft
3	a) Removing door with chowkat.	4				4.00	No
4	b) Removing windows and sky lights with chowkat.	8				8.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	37.50	29.50	0.25	276.56	Cft
					Total	2.77	%Cft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

Rate Analysis - 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 190 Km)

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	1	299.80	300
		2nd KM	100 Cft	1	1	145.45	145
		3rd KM	100 Cft	1	1	117.00	117
		4th KM	100 Cft	1	1	85.40	85
		5th KM	100 Cft	1	1	80.25	80
		6th KM	100 Cft	1	1	79.10	79
		7th KM	100 Cft	1	1	74.30	74
		8th KM	100 Cft	1	1	73.60	74
		9th KM	100 Cft	1	1	69.60	70
		10th KM	100 Cft	1	1	65.75	66
		From 11 km to 200 km	100 Cft	180	1	57.30	10,314
		Total.					11,404.25
		Total Amount per 100 Cft					11,404.25
		Total Cost for Per Cft					114.04

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

EARTH WORK LEAD CHART

Rate Analysis - 2

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Lead	Unit.	Qty	Rate (Rs)	Amount (Rs)
1	3/5/i	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	1	1000Cft	1	9,552.55	9,552.55
2	3/17a.b.c	Carriage upto ¼ mile (400 m). for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km). for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km).	1 12 8.5 0	1000 Cft 1000 Cft 1000 Cft 1000 Cft	1 1 1 1	4,341.40 40.25 338.75 320.70	4,341.40 483.00 2,879.38 -
		Total Amount I,000 (Rs.).					17,256.33
		Total Amount Per Cft					17.26

PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis - 3

Description

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 and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from Dina quarry to site, actual compacted depth shall be considered for payment)

Crush Stone

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs)
1		Material					
	18-3 a(ii)	ii) Crushed stone aggregate.	100 Cft	1	1	9,345.00	9,345.00
2	1/1	Carriage					
		1st KM	100 Cft	1	1.2	299.80	359.76
		2nd KM	100 Cft	1	1.2	145.45	174.54
		3rd KM	100 Cft	1	1.2	117.00	140.40
		4th KM	100 Cft	1	1.2	85.40	102.48
		5th KM	100 Cft	1	1.2	80.25	96.30
		6th KM	100 Cft	1	1.2	79.10	94.92
		7th KM	100 Cft	1	1.2	74.30	89.16
		8th KM	100 Cft	1	1.2	73.60	88.32
		9th KM	100 Cft	1	1.2	69.60	83.52
		10th KM	100 Cft	1	1.2	65.75	78.90
		From 11 km to 200 km	100 Cft	130.00	1.2	57.30	8,938.80
		Total.					19,592.10
		Total Amount per 100 Cft					19,592.10
		Total Cost for Per Cft					195.92

PUNJAB CITIES PROGRAM (PCP)
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Rate Analysis - 4

Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)

Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/4(a)	Crushed stone	100 Cft		1	14,122.50	14,123
2	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contratcor.					
		1st KM	100 Cft	1	1.22	299.80	366
		2nd KM	100 Cft	1	1.22	145.45	177
		3rd KM	100 Cft	1	1.22	117.00	143
		4th KM	100 Cft	1	1.22	85.40	104
		5th KM	100 Cft	1	1.22	80.25	98
		6th KM	100 Cft	1	1.22	79.10	97
		7th KM	100 Cft	1	1.22	74.30	91
		8th KM	100 Cft	1	1.22	73.60	90
		9th KM	100 Cft	1	1.22	69.60	85
		10th KM	100 Cft	1	1.22	65.75	80
		From 11 km to 200 km	100 Cft	180.00	1.22	57.30	12,583
			Total.				
		Total Amount per 100 Cft					28,035.69
		Total Cost for Per Cft					280.36

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

Rate Analysis - 5

Manhole Construction 2 x 2 Ft										Unit	Each
Sr. No.	2nd BI-Annual-2022 (July to Dec) Gujranwala	Description	No.	Length	Width	Height	Qty	Unit	Rate (Rs)	Amount (Rs)	
1	3-42-i	Excavation. (0 to 7 feet depth)	1	3.50	3.50	3.00	36.75	1000 Cft	11,770.45	432.56	
2	6-3-b	Cement concrete brick or stone ballast (1:4:8)	1	3.50	3.50	0.33	4.04	100 Cft	25,065.80	1,013.28	
3	6-5-f	Base slab	1	3.50	3.50	0.25	3.06	100 Cft	38,271.80	1,172.07	
4	6-6-(a)(i)	Top ring Beam Ratio 1:2:4	1	3.50	3.50	0.33	4.04	100 Cft	556.05	2,247.83	
5	6/12 (c)	Steel work		3.00 kg per cft			14.15	kg	31,808.25	4,500.47	
6	7-7-i	Brick Work Ratio 1:3 Step - 1	1	11.00	0.75	2.00	16.50	100 Cft	35,372.90	5,836.53	
7	11-8-c	3/4" thick Plaster Ratio 1:3 (External)	1	11.00		2.00	22.00	100 Sft	4,647.65	1,022.48	
8	11-18-a	Cement pointing struck joints, on walls (1:2) (Internal)	1	8.00		2.00	16.00	100 Sft	3,575.35	572.06	
9	13-9-i	Bitumen Coating on External Plaster	1	11.00		2.00	22.00	100 Sft	2,178.75	479.33	
10	19-40-ii	Supply and fitting of cast iron manhole cover ii) 45 cm (18") dia	1				1.00	Each	1,345.80	1,345.80	
Grand Total.									18,622		

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

RATE ANALYSIS

Description

Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.

								Unit.	Per Sft
Sr. No.	Ref	Detail			Unit Rate (British System) per Sft				
					Qty	Rate Per Unit		Amount (Rs.)	
		Area 1 Sft							
		<u>Material</u>							
1	MR	Supply of PEB Shed			1	Sft	1,888.00	Sft	1,888
								Total.	1,888
		Contractor's Profit		20 %					378
		Total							2,266
		<u>ITEM RATES</u>							
		Composite rate Per Sft						Rs.	2,270

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
RATE ANALYSIS

Rate Analysis for 3.50' x 7' = 24.50 Sft

Sr. No.	Ref Input Rate	Detail	Unit Rate (British System) per Sft			
			Qty.	Rate Per Unit (Rs.)	Amount (Rs.)	
A		Material				
	12.014	Formica sheet (8' x 4') (Rate - 1400 Per Sheet)				
		Size 3.50' x 7' = 24.50	24.50	Sft		
			24.50	Sft		
		Wastage 5%	5 %	1.23	Sft	
		Total	25.73	Sft	43.75	P. Sft
						1,125.47
						Total
						1,125.47
B		Fitting				
1	12.039	Glue (Bottle) Best Quality	0.50	Kg	200.00	Kg
						Total
						100.00
C		Labour				
	LB-029	Carpenters	0.10	Nos	1400.00	P. Day
	LB-024	Skilled Cooly	0.10	No	1400.00	P. Day
		Total				
						280.00
		Sundries	10 %			
		Total				28.00
						308.00
						Total (A+B+C)
						1,533.47
		Contractor's profit	20 %			
						306.69
		Total for 24.50 Sft.				
						1,840.16
		Rate Per Sft				
						75.11
		Item Rates				
		Composite Rate Per Sft			Rs.	75.11
		Composite Rate Per Sqm			Rs.	808.18

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

RATE ANALYSIS

Description

Supply, installation, testing, and commissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.

								Unit.	Each
Sr. No.	Ref	Detail			Unit Rate (British System) per Each				
					Qty	Rate Per Unit	Amount (Rs.)		
		<u>Material</u>							
1	MR	i) Direct of Line (DOL) Starter for 5HP Motor			1.00	No.	44,600	No.	44,600
								Total.	44,600
2		Carriage & Installation Charges							2,945
								Total.	47,545
		Contractor's Profit on item No. (1&2)		20	%				9,509
		Total							57,054
		<u>ITEM RATES</u>							
		Composite rate Per Each						Rs.	57,060

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

RATE ANALYSIS

Description

Supply, installation, testing, and commissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.

	Unit.	Each
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Sr. No.	Ref	Detail	Unit Rate (British System) per Each		
			Qty	Rate Per Unit	Amount (Rs.)
		<u>Material</u>			
1	MR	i) Direct of Line (DOL) Starter for 3HP Motor	1.00	No.	33,500
					Total.
					33,500
2		Carriage & Installation Charges			2,230
					Total.
					35,730
		Contractor's Profit on item No. (1&2)	20	%	7,146
		Total			45,106
		<u>ITEM RATES</u>			
		Composite rate Per Each			Rs. 45,110

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

RATE ANALYSIS

Description									
Supply, Installation, testing and commissioning of following Flood Light, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.									
								Unit.	Each
Sr. No.	Ref	Detail	Unit Rate (British System) per Each						
			Qty	Rate Per Unit		Amount (Rs.)			
		<u>Material</u>							
1	MR	Flood Light	1.00	No.	5,525	No.	8,800		
							Total.	8,800	
2		Carriage & Installation Charges						276.25	
							Total.	9,076	
		Contractor's Profit on item No. (1&2)	20	%				1,815	
		Total						10,892	
		<u>ITEM RATES</u>							
		Composite rate Per Each					Rs.	10,891	
		Say					Rs.	10,900	

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

RATE ANALYSIS

Description

Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.

								Unit.	Each
Sr. No.	Ref	Detail				Unit Rate (British System) per Each			
			Qty	Rate Per Unit	Amount (Rs.)				
		<u>Material</u>							
1	MR	Ceiling Fan	1.00	No.	5,525	No.		5,525	
							Total.	5,525	
2		Carriage & Installation Charges							276.25
							Total.	5,801	
		Contractor's Profit on item No. (1&2)	20	%					1,160
		Total							6,962
		<u>ITEM RATES</u>							
		Composite rate Per Each					Rs.	6,961	
		Say					Rs.	7,000	