

**KHAIRPUR COLLEGE OF AGRICULTURE & MANAGEMENT
SCIENCES, KHAIRPUR MIR'S**

CROP PROTECTION

SUMMARY OF COST

	<u>SCHEDULE ITEM</u>	<u>NON-SCHEDULE ITEM</u>
1) CIVIL WORKS	Rs. 45,942,231.81	Rs.
Premium Above/Below (.....%)	Rs.	—
	<hr/>	<hr/>
TOTAL =	Rs. <hr/>	Rs. <hr/>
A = Total Schedule + Non-Schedule Items (Civil Works): = Rs.		
2) PLUMBING WORKS	Rs. 780,916.94	Rs.
Premium Above/Below (.....%)	Rs.	—
	<hr/>	<hr/>
TOTAL =	Rs. <hr/>	# Rs. <hr/>
B = Total Schedule + Non-Schedule Items (Plumbing Works): = Rs.		
3) ELECTRICAL WORKS	Rs. 1,284,952.00	Rs.
	<hr/>	<hr/>
TOTAL =	Rs. <hr/>	Rs. <hr/>
C = Total Schedule + Non-Schedule Items (Electrical Works): = Rs.		
		Total (A + B + C) Rs. <hr/>

KHAIRPUR COLLEGE OF AGRICULTURE & MANAGEMENT SCIENCES,
KHAIRPUR MIR'S
CROP PROTECTION
CIVIL WORKS
SCHEDULE-B

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
<u>SCHEDULE ITEMS:</u>						
01.	68615 Cft	Excavation in foundation of buildings bridges and other structures including dag belling, dressing, refilling around the structure with excavated earth watering and ramming. lead upto one chain and lift upto 5 ft. in Ordinary soil. (S.I. No.18(b) chapter 1 of Schedule of Rates 2012)	%OCft	3,176.25		217,938.39
02.	5720 Cft	Cement concrete brick or stone ballast 1½" to 2" gauge ratio 1:4:8. (a) In foundation (S.I. No.4(b) chapter 4 of Schedule of Rates 2012)	%Cft	9,416.28		538,611.22
03.	2980 Cft	Cement Concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate without shuttering): (i) Ratio 1:3:6	%Cft	12,595.00		375,331.00
	4525 Cft	(ii) Ratio 1:4:8 (Under Floor) (S.I. No.5(h) and 5(i) chapter 4 of Schedule of Rates 2012)	%Cft	11,288.75		510,815.94
04.	33190 Cft	Filling, watering and ramming earth in floors with surplus earth from foundation lead upto one chain and lift upto 5 feet. (S.I. No.21 chapter 1 of Schedule of Rates 2012)	%OCft	1,512.50		50,199.88
05.	8000 Sft	Erection and removal of centering for RCC or plain cement concrete works for Partal wood (Vertical). (S.I. No.19(b)(ii) chapter 4 of Schedule of Rates 2012)	%Sft	3,127.41		250,192.80
06.		Reinforced cement concrete work in all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid seperately. This rate also including all kinds of forms, moulds, lifting, shuttering, curing, rendring and finishing the exposed surface.(including screening and washing of shingle). (b) RCC work in roof slabs, beams, columns, rafts, lintels and other structural mambers laid in situ or pre-cast laid in position complete in all respects. (i) Ratio 1:2:4, 90 lbs cement, 2 cft sand, 4 cft shingle 1/8" to 1/4" gauge.				
	39050 Cft	a) Ground Floor	Cft	337.00		13,159,850.00
	13005 Cft	b) First Floor	Cft	349.11		4,540,175.55
	1285 Cft	c) Above First Floor	Cft	361.20		464,142.00
		(S.I. No.6(a)(i)&(d) chapter 4 of Schedule of Rates 2012)				

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
07.	1400 Sft	Damp Proof Course with cement sand and shingle concrete (1:2:4) including 2 coats of asphaltic mixture 2" thick. (S.I. No.28(b) chapter 4 of Schedule of Rates 2012)	%Sft	3,912.85		54,779.90
08.	7260 Sft	Vertical damp proof course of 3/4" thick cement plaster 1:2 with bitument @ 20 Lbs per % sft. (S.I. No.70, chapter 18 of Schedule of Rates 2012)	%Sft	2,760.99		200,447.87
09.		Pucca brick work in Ground Floor in cement sand mortar 1:6 including striking of joints:				
	10280 Cft	a) Ground Floor	%Cft	12,674.36		1,302,924.21
	9370 Cft	b) First Floor	%Cft	13,112.99		1,228,687.16
	2200 Cft	c) Above First Floor (S.I. No.5(i)(e) chapter 5 of Schedule of Rates 2012)	%Cft	13,687.74		301,130.28
10.	13870 Cft	Supplying and filling sand under floors and plugging in walls. (S.I. No.29 chapter 5 of Schedule of Rates 2012)	%Cft	1,141.25		158,291.38
11.	5925 Cft	Dry rammed brick or stone ballast 1½" to 2" gauge. (S.I. No.2 chapter 4 of Schedule of Rates 2012)	%Cft	3,327.50		197,154.38
12.		Laying floors of approved white glazed tiles 1/4" thick in white cement 1:2 over 3/4" thick cement mortar 1:2 complete:				
	530 Sft	a) Ground Floor	%Sft	27,678.86		146,697.96
	530 Sft	b) First Floor (S.I. No.24 chapter 8 of Schedule of Rates 2012)	%Sft	27,678.86		146,697.96
13.		Glazed tile dado 1/4" thick laid in pigment over 1:2 cement sand mortar 3/4" thick including finishing:				
	1625 Cft	a) Ground Floor	%Sft	28,299.30		459,863.63
	1625 Cft	b) First Floor (S.I. No.38 chapter 8 of Schedule of Rates 2012)	%Sft	28,299.30		459,863.63
14.		Providing and laying single per layer of polythene sheet 0.13 mm thick for water proofing as per specification and instructions of Engineer Incharge:				
	13340 Sft	(a) Under Floor (S.I. No.38 chapter 7 of Schedule of Rates 2012)	Sft	10.70		142,738.00
15.		Two coats of bitumen laid hot using 34 lbs for % Sft over roof and blinded with sand at one Cft Per % Sft:				
	13200 Sft	(a) Over Roof Top (S.I. No.13 chapter 7 of Schedule of Rates 2012)	%Sft	1,887.40		249,136.80
16.		Cement plaster 3/8" thick Ratio 1:6 (1st Coat Internal):				
	22580 Sft	a) Ground Floor	%Sft	2,122.72		479,310.18
	21230 Sft	b) First Floor (S.I. No.13(a) chapter 9 of Schedule of Rates 2012)	%Sft	2,122.72		450,653.46

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
17.		Cement plaster 3/8" thick Ratio 1:4 (2nd Coat Internal):				
	22580 Sft	a) Ground Floor	%Sft	2,197.52		496,200.02
	21230 Sft	b) First Floor	%Sft	2,197.52		466,533.50
		(S.I. No.11(a) chapter 9 of Schedule of Rates 2012)				
18.		Cement plaster 3/8" thick Ratio 1:6 (1st Coat External):				
	10470 Sft	a) Ground Floor	%Sft	2,122.72		222,248.78
	10380 Sft	b) First Floor	%Sft	2,262.72		234,870.34
	7775 Sft	c) Above First Floor	%Sft	2,402.72		186,811.48
		(S.I. No.13(a)+29 chapter 9 of Schedule of Rates 2012)				
19.		Cement plaster 3/8" thick Ratio 1:4 (1st Coat External):				
	8070 Sft	a) Ground Floor	%Sft	2,197.52		177,339.86
	8230 Sft	b) First Floor	%Sft	2,337.52		192,377.90
	7775 Sft	c) Above First Floor	%Sft	2,177.52		169,302.18
		(S.I. No.11(a)+29 chapter 9 of Schedule of Rates 2012)				
20.	18 Nos	Making Khuras on Roof 2'-0" x 2'-0" x 0'-6".	Each	358.68		6,456.24
		(S.I. No.18 chapter 7 of Schedule of Rates 2012)				
21.	18 Nos	Bottom Khuras of brick masonry in cement mortar 1:6 4'x2'x4'1/2", 3" cement concrete (1:4:8).	Each	649.83		11,696.94
		(S.I. No.19 chapter 7 of Schedule of Rates 2012)				
22.		Fabrication of ToR steel reinforcement for cement concrete including cutting, bending, laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars):				
	1640 Cwt	a) Ground Floor	Cwt	5,001.70		8,202,788.00
	650 Cwt	b) First Floor	Cwt	5,001.70		3,251,105.00
	58 Cwt	c) Above First Floor	Cwt	5,152.95		298,871.10
		(S.I. No.8(b)& 29 chapter 4 of Schedule of Rates 2012)				
23.		Providing & Fixing G.I frames/chowkats of size 7" x 2" or 4½" x 3" for door using 20 guage G.I sheet including welded hinges and fixing at site with necessary hold fasts. Filling with cement and slurry of ratio 1:6 and repairing the jambs. The cost also includes all carriage, tools and plants used in making and fixing:				
	800 Rft	a) Ground Floor	Rft	228.90		183,120.00
	760 Rft	b) First Floor	Rft	228.90		173,964.00
		(S.I. No.29 chapter 17 of Schedule of Rates 2012)				
24.		Preparing new surface and 2 coats of painting over priming coat on doors and windows any type (including edges):				
	2200 Sft	a) Ground Floor	%Sft	2,116.41		46,561.02
	2000 Sft	b) First Floor	%Sft	2,116.41		42,328.20
		(S.I. No.5(c)(i) & (ii) chapter 11 of Schedule of Rates 2012)				

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
25.		Preparing the surfaces and painting with plastic Emulsion paint of approved make including rubbing the surface with sand paper, filling the voids with chalk/plaster of paris and then painting etc complete (new surface 3 coats) (on wall):				
	24000 Sft	a) Ground Floor	%Sft	2,237.95		537,108.00
	22500 Sft	b) First Floor	%Sft	2,237.95		503,538.75
		(S.I. No.40(A&B) chapter 9 of Schedule of Rates 2012)				
26.		Distempering (3 coats) (on ceiling):				
	13850 Sft	a) Ground Floor	%Sft	1,079.65		149,531.53
	12600 Sft	b) First Floor	%Sft	1,079.65		136,035.90
		(S.I. No.24(c) chapter 9 of Schedule of Rates 2012)				
27.		Preparing the surface and painting with weather coat including rubbing brick/sand paper filling the voids with chalk/plaster of paris and then painting with weather coat of approved make (3 coats):				
	8070 Sft	a) Ground Floor	%Sft	2,567.95		207,233.57
	8230 Sft	b) First Floor	%Sft	2,567.95		211,342.29
	7775 Sft	c) Above First Floor	%Sft	2,796.04		217,392.11
		(S.I. No.38(A&B) & 42 chapter 9 of Schedule of Rates 2012)				
28.	14830 Sft	Providing Anti-termite treatment by spraying/sprinkling/spreading Neptachler 0.5% emulsion as an over all pre-construction treatment in slab type construction under the slab and along attached perches or entrances etc. complete as per direction of Engineer Incharge (plinth area).	Sft	9.74		144,444.20
		(S.I. No.92 chapter 18 of Schedule of Rates 2012)				
29.		Supplying and fixing in position Aluminium channels framing for hinged doors of Alcop made with 5 mm thick tinted glass glazing (Belgium) and Alpha (Japan) locks including handles, stoppers etc. Deluxe model (White) with glazed partition.				
	115 Sft	a) Ground Floor	Sft	1,450.76		166,837.40
		(S.I. No.83(a) chapter 18 of Schedule of Rates 2012)				
30.		Supplying and fixing in position Aluminium Deluxe model (Bronze) channels, framing for sliding windows and ventilators of Alcop made with 5 mm thick tinted glass glazing (Belgium) and aluminium fly screen including handles, stoppers and locking arrangement etc; complete. Deluxe model (White).				
	870 Sft	a) Ground Floor	Sft	1,592.69		1,385,640.30
	850 Sft	b) First Floor	Sft	1,592.69		1,353,786.50
		(S.I. No.84(a) chapter 18 of Schedule of Rates 2012)				

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
31.	870 Sft	Supplying and fixing in position iron/steel grill of 3/4" x 1/4" size flat iron of approved design including painting 3-coats etc. complete (weight not to be less than 3.7 Lbs/Sft of finished grill). (S.I. No.26 chapter 17 of Schedule of Rates 2012)	Sft	180.50		157,035.00
32.	4600 Sft	Preparing surface and painting sashes, fan light glazed or gauzed door and window grill etc. any type (including edges). (S.I.No.5(d)(i)&(ii) chapter 11 of Schedule of Rates 2012)	%Sft	1,270.83		58,458.18
33.	6641 Bags	Difference of cost of S.R. cement and Portland cement. (S.I.No.45(a) and 45(b) Page-4 of Schedule of Rate of Material 2011)	Bag	40.00		265,640.00

TOTAL SCHEDULE ITEMS (CIVIL WORKS) : Rs. 45,942,231.81

KHAIRPUR COLLEGE OF AGRICULTURE & MANAGEMENT SCIENCES
KHAIRPUR MIR'S
CROP PROTECTION
CIVIL WORKS
SCHEDULE-B

S.No.	Quantity	Description	Unit	Rate in Figures Rupees	Rate in Words Rupees
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NON-SCHEDULE ITEMS

01.	310	Rft	Providing and fixing balustrade of Rectangular Mild steel pipe 18 gauge (2"x1") size fixed with 1" x 1/4" mild steel flat to 2" dia M.S pipe of 18 gauge hand rail moulded to required details as per drawing and specifications including polishing the hand rail and painting the mild steel square bars with 2 coats of paint priming coat of anticorrosive (red oxide) of approved manufacture for all floor.	Rft	
02.	1000	Sft	Providing and applying 3/4" thick internal cement plaster ratio 1:4 with Pudlo @ 5 lbs per bag of cement etc; complete. (for Overhead Tanks).	Sft	
03.	150	Rft	Providing and fixing PVC ribbed water stops 9" (152 mm) wide in vertical or horizontal expansion joints including cutting or jointing etc., complete in all floors.	Rft	
04.			Providing and laying Guttca brick facing 2 1/4"x9"x2 1/4" size of approved design set in cement sand mortar 1:3 including filling the joints with white cement slurry using colour pigment for matching, including levelling, smooth finishing, curing and scaffolding etc. complete as per specification and as directed by the Engineer Incharge (For all height).		
	2400	Sft	a) Ground Floor	Sft	
	2150	Sft	b) First Floor	Sft	

S.No.	Quantity	Description	Unit	Rate in Figures Rupees	Rate in Words Rupees
05.		Providing and laying Soil/Waste/Vent U-PVC pipes and fittings with plain socket end/spigot ends (heavy grade) confirming to be BS-4514/1983 Specifications complete, jointing with best quality solvent cement joint or rubber ring push fit joint, U-PVC fittings such as bends, tees, crosses, tee, P-trap, Cowels, Clamps and hangers, including excavation and backfilling etc; required for the proper completion of the job complete in all respects, pipes and fittings are first class best quality manufactured by DADEX/AGM or approved equivalent etc; complete in all respects as per drawing and specifications and as directed by the Engineer Incharge.			
	800 Rft	a) 110 mm dia (4" dia for Rain water)	Rft		
06.	2415 Sft	Providing and fixing 1½" thick solid core machine pressed commercial ply veneered door (single or double leaf) best quality shutters of first class deodar wood skeleton and commercial ply wood (3 ply) on both sides, openable on one side of approved manufacturer with and including brass oxidized fittings such as hinges, tower bolts, handles, al-drop mortice lock door stopper etc; as per schedule of hardware etc; complete as per drawings and specifications (For all height).	Sft		
07.	350 Rft	Providing and fixing expansion joint of 16 gauge and 6" wide aluminium sheet cover, with one end fixed with stainless steel screw and the other end free in RCC columns and as per details and specifications etc; complete.	Rft		
08.	150 Rft	Providing and fixing flashing with 22 gauge stainless steel sheet 16" wide moulded as per design, one end fixed with rawal plug and stainless steel screws and the other end kept free as per drawing and specifications complete (over the top roof).	Rft		
09.	1000 Sft	Providing and fixing in position thermopor in expansion joints 1" thick in between different members of RCC works i.e. columns, beams, etc; as per drawing and specifications.	Sft		
10.	500 Rft	Providing and fixing expansion joint 1x1" size epoxy filling.	Rft		

S.No.	Quantity	Description	Unit	Rate in Figures Rupees	Rate in Words Rupees
11.	2 Nos	Providing and fixing C.I. manhole covers with frame 2'-0" x 2'-0" inside dimension double seal water tight weighing 1 cwt complete with locking arrangements etc.	Each		
12.		Providing and laying Porcelain Tiles Floor of approved size, design and quality laid over 1¾" thick C.C. 1:2:4 bed floor including filling and grouting the joints with neat white cement slurry using colour pigment for matching, including levelling and curing etc; complete as per specification and as directed by the Engineer Incharge. (i) Size of Tile 12" x 12"			
	13600 Sft	a) Ground Floor	Sft		
	12260 Sft	b) First Floor	Sft		
13.		Providing and laying 12" x 6" size Porceline Tiles Skirting of approved design and quality set in cement sand mortar ratio 1:3 including filling the joints with neat white cement slurry using colour pigment for matching, including levelling and curing etc; complete as per specification and as directed by the Engineer Incharge.			
	1200 Sft	a) Ground Floor	Sft		
	1150 Sft	b) First Floor	Sft		

TOTAL NON-SCHEDULE ITEMS (CIVIL WORKS) : Rs.

ES,

Amount

Amount

Amount

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KHAIRPUR COLLEGE OF AGRICULTURE & MANAGEMENT SCIENCES,
KHAIRPUR MIR'S
CROP PROTECTION
PLUMBING WORKS
SCHEDULE-B

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
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SCHEDULE ITEMS:

01.	10 Nos.	Providing & fixing C.P. Brass Towel Rail complete with bracket fixing on wooden cleats with 1" long C.P. brass screws, 30" long 3/4" dia (round standard quality). (S.I. No.1(ii)(a) Chapter-2 of Schedule of Rate of 2012)	Each	1,082.95		10,829.50
02.	16 Nos.	Providing & fixing 24"x18" bevelled edge mirror of Belgium Glass complete with 1/8" thick C.P. Brass Towel Rail complete with bracket fixing on wooden cleats with 1" long C.P. brass screws, 30" long 3/4" dia (round standard quality). (S.I. No.3(a) Chapter-2 of Schedule of Rate of 2012)	Each	1,711.60		27,385.60
03.		Providing R.C.C pipe with collars class "B" and digging the trenches to required depth & fixing in position including cutting, fitting and jointing with asphalt composition and cement mortar 1:1 and testing with water pressure to a head of 4ft: above the top of the highest pipe and refilling with excavated stuff. (S.I. No.2(b), (c) & (d) Chapter-10 of Schedule of Rate of 2012)				
	100 Rft	a) RCC Pipe 4" dia	Rft	146.57		14,657.00
	600 Rft	b) RCC Pipe 6" dia	Rft	199.25		119,550.00
	150 Rft	c) RCC Pipe 9" dia	Rft	250.60		37,590.00
04.	4 Nos.	Providing and fixing 6"x4" gully trap with 4" outlet complete with 4" thick 1:2:4 C.C. for bed and kerb, 1/2" thick cement plaster (1:3) to the kerb C.I. Grating 6"x6" and C.I. cover and frame 12"x12" (inside) etc; complete C.C. Gully traps 6"x6" with C.I. cover and frame. (S.I. No.1(i), Chapter-10 of Schedule of Rate of 2012)	Each	1,193.17		4,772.68
05.		Providing and fixing full way gunmetal valves with wheels threaded or flanged ends with rubber washers, standard pattern. (Note: Standard manufacturer by M/s. Anwar Mechanical Works) (S.I.No.4(B)(ii), (iii) & (v), Chapter-6 of Schedule of Rate of 2012)				
	2 Nos	a) 1½" dia	Each	970.92		1,941.84
	8 Nos	b) 1" dia	Each	271.92		2,175.36
	2 Nos	c) 3/4" dia	Each	227.92		455.84

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
06.	20 Nos.	Supply and fixing concealed stop cock of superior quality with C.P. head 1/2" dia. (S.I.No.11(b), Chapter-6 of Schedule of Rate of 2012)	Each	509.74		10,194.80
07.	20 Nos.	Providing & fixing C.P. brass toilet paper holder of standard size with chrome plated brass brackets complete, (superior quality). (S.I.No. 2(b), Chapter-2 of Schedule of Rate of 2012)	Each	1,071.40		21,428.00
08.	20 Nos.	Supplying and fixing C.P. Muslim shower with double bib cock and ring pipe etc; complete. (S.I.No. 19(a), Chapter-6 of Schedule of Rate of 2012)	Each	3,432.00		68,640.00
09.	18 Nos	Construction of manhole or inspection chamber for the required dia of circular sewer and 3'-6" depth with walls of B.B in cement mortar 1:3, cement plaster 1:3 1/2" thick inside of walls and 1" thick over benching benching and channel including fixing C.I. manhoel cover with frame of clear opening 1½"x1½' of 1.75cwt. embedded in plain C.C. 1:2:4 and fixing 1"dia M.S. steps 6" wide projecting 4" from the face of wall at 12" c.c. duly painted etc; complete as per specifications and drawing No: DP/I of Public Health Circle Southern Zone Hyderabad. a) 4" to 12" dia 2' x 2' x 3'-6". (S.I. No.1(a) Chapter-II of P.H. Engg. of 2012)	Each	14,748.00		265,464.00
10.	8 Nos	Providing and fixing European type white glazed earthen ware wash down W.C Pan complete with including cost of white/black plastic seat (best quality) lid with C.P brass hinges best quality buffers 3 gallons plastic finishing with internal fitting with fitting clamp 3/4" dia and cutting and making requisite number of holes in walls, plinth and floor for pipe connection and making good in cement concrete 1:2:4. (S.I.No:4, Chapter 1 of Schedule of Rates 2012)	Each	5,339.40		42,715.20
11.	16 Nos	Providing and fixing 24"x18" lavatory basin in white glazed earthen ware glazed earthen ware complete with including the cost of W.I or C.I Cantilever brackets 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of 1/2" dia rubber plug chrome plate brass chain 1-1/4" dia malleable iron or C.P brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connection and making good in cement concrete 1:2:4 (standard pattern). (S.I.No:8 + 9, Chapter 1 of Schedule of Rates 2012)	Each	5,192.37		83,077.92

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
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12. 12 Nos Providing and fixing Orisa type white of colour glazed earthen ware W.C. Pan with cost, of low level plastic flush tank of 3 gallons capacity of approved quality including making requisite number of holes in wall, plinth and floor and making good in cement concrete 1:2:4.

(a) W.C. pan orisa tye 23" with plastic tank of low down 3 gallons trap and C.I. thimble (superior quality).

(i) with 4 " dia C.I. trap.

Each 5,836.60

70,039.20

(S.I. No.3(a)(i) Page-2)

TOTAL SCHEDULE ITEMS (PLUMBING WORKS) : Rs. 780,916.94

KHAIRPUR COLLEGE OF AGRICULTURE & MANAGEMENT SCIENCES,
KHAIRPUR MIR'S
CROP PROTECTION
PLUMBING WORKS
SCHEDULE-B

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
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NON-SCHEDULE ITEMS:

01. Providing and laying PPRC pipe and fittings to specification DIM 8077-8078 including all necessary fittings (tees, sockets, elbows, crosses etc.) including heat fusion joint, required for proper completion of the job heavy duty, clamping or anchoring pipes to walls or chipping the walls to embedded pipes in walls and making good the surface and/or laying underground pipes including excavation of trenches required and testing the pipe line with 20 PN, pipes and 25 PN fittings are first class best quality manufactured by DADEX/AGM or approved equivalent etc; complete in all respects as per drawing and specifications and as directed by the Engineer Incharge.

90	Rft	a) 20 mm dia (1/2" dia:)	Rft		
90	Rft	b) 25 mm dia (3/4" dia:)	Rft		
275	Rft	c) 32 mm dia (1" dia:)	Rft		
550	Rft	d) 50 mm dia (1½" dia:)	Rft		

02. Providing and laying Soil/Waste/Vent U-PVC pipes and fittings with plain socket end/spigot ends (heavy grade) confirming to be BS-4514/1983 Specifications complete, jointing with best quality solvent cement joint or rubber ring push fit joint, U-PVC fittings such as bends, tees, crosses, tee, P-trap, Cowels, Clamps and hangers, including excavation and backfilling etc; required for the proper completion of the job complete in all respects, pipes and fittings are first class best quality manufactured by DADEX/AGM or approved equivalent etc; complete in all respects as per drawing and specifications and as directed by the Engineer Incharge.

200	Rft	a) 75 mm dia (3" dia:)	Rft		
220	Rft	b) 100 mm dia (4" dia:)	Rft		

TOTAL NON-SCHEDULE ITEMS (PLUMBING WORKS) : Rs.

**KHAIRPUR COLLEGE OF AGRICULTURE & MANAGEMENT SCIENCES
KHAIRPUR MIR'S**

CROP PROTECTION

ELECTRICAL WORKS

SCHEDULE-B

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees
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SCHEDULE ITEM:

1. 470 Point Wiring for light or fan point with (3/.029") PVC insulated wire in 20 mm² (3/4") PVC conduit recessed in slab/wall/column as required.
(Schedule Item No. 124-p15) Point 1130.00

2. 208 Point Wiring for plug point with (3/.029") PVC insulated wire in 20 mm² (3/4") PVC conduit recessed in the wall or column as required.
(Schedule Item No. 126-p15) Point 985.00

3. 4 Point Providing & fixing bakelite ceiling rose with two terminals.
(Schedule Item No. 228-p33) Point 72.00

4. 144 Point Providing & fixing brass ceiling fan 56" (good quality).
(Schedule Item No. 231-p33) Point 3185.00

5. 60 Mtrs Providing & laying (MAIN or SUB MAIN) PVC insulated with size 4-7/.064 (16mm²) copper conductor in 1-1/2" dia PVC conduit on surface.
(Schedule Item No. 42 -p6) Per Mtr. 1213.00

6. 208 Point Providing & fixing two pin 5amp plug socket flush type.
(Schedule Item No. 225 -p33) Point 83.00

TOTAL SCHEDULE ITEMS (ELECTRICAL WORKS) : Rs.

CES,

Amount

531,100.00

204,880.00

288.00

458,640.00

72,780.00

17,264.00

1,284,952.00

KHAIRPUR COLLEGE OF AGRICULTURE & MANAGEMENT SCIENCES,
KHAIRPUR MIR'S
CROP PROTECTION
ELECTRICAL WORKS
SCHEDULE-B

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
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NON SCHEDULE ITEMS:

A. SEC-A: WIRING INSTALLATIONS:

1		Provide, wire and connect 2 x 2.5mm ² + 1x1.5 sq. mm S/C PVC cable in 20mm dia high impact PVC conduit recessed in slab/wall, complete with all accessories, for:				
101	470 Nos	Circuits for light/fan points	Each			
2		Provide, fix and connect following accessories 1.5mm thick sheet steel back box of appropriate dimensions surface on walls:				
201	20 Nos	One gang switch plate.	Each			
202	60 Nos	Two gang switch plate.	Each			
203	24 Nos	Four gang switch plate.	Each			
204	144 Nos	Solid state fan dimmer with "ON-OFF" control.	Each			
205	44 Nos	Telephone outlet plates with Jack plug.	Each			
206	8 Nos	Split A/C point.	Each			
207	20 Nos	Wiring of Exhaust Fan points.	Each			

B. SEC: B: LIGHT FITTINGS & FIXTURES:

1.		Provide, fix, connect and commission light fixtures Philips make or equivalent with Philips components as approve, complete in all respects and ready for use:				
101.	32 Nos	Philips Type TFD-240 or equivalent complete with 2x40 W fluorescent lamps.	Each			
102.	345 Nos	Philips Type GKD-240 or equivalent complete with 2x40 W fluorescent lamps.	Each			
103.	20 Nos	Philips Type TMS-140 or equivalent complete with 1x40 W fluorescent lamps.	Each			
104.	20 Nos	Light fixture ceiling mounted with 1x24W PLCE lamp.	Each			
02.		Provide, install, connect and commission Exhaust fan, complete in all respects:				
201.	20 Nos	9" dia exhaust fan.	Each			

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
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C. SEC: C: FEEDERS:

- | | | | | | | |
|----|----|------|---|-----|--|--|
| 1. | 40 | Mtrs | Provide lay and connect feeder from Main Source to Main DB, 50mm ² 3 1/2 core PVC/PVC cable in 100mm dia high impact PVC conduit, complete with all accessories. | Mtr | | |
|----|----|------|---|-----|--|--|

D. SEC: D: DISTRIBUTION BOARDS:

- | | | | | | | |
|----|--|--|---|--|--|--|
| 1. | | | Provide, install, connect and commission MAIN DB-G, 1.5mm thick sheet steel fabricated, flush type totally enclosed with hinged front cover suitable for 3 Phase, 4 wire, 50 Hz A/c system and equipped as under: | | | |
|----|--|--|---|--|--|--|

Incoming:

- 1 - 150 Amp, TP, 15 KA, MCCB:
- 3 - Phase indicating lamps:
- 1 - Set of Bus bars

Outgoing:

- | | | | |
|---|-----|----------------------------|------|
| 1 | Job | 5 - 40 Amps TP, 15 KA, MCB | Each |
|---|-----|----------------------------|------|

- | | | | | | | |
|----|--|--|--|--|--|--|
| 2. | | | Provide, install, connect and commission DB-F1 & F2, 1.5mm thick sheet steel fabricated, flush type totally enclosed with hinged front cover suitable for 3 Phase, 4 wire, 50 Hz A/c system and equipped as under: | | | |
|----|--|--|--|--|--|--|

Incoming:

- 1 - 40 Amp, TP, 15 KA, MCCB:
- 3 - Phase indicating lamps:
- 1 - Set of Bus bars

Outgoing:

- | | | | |
|---|------|---|------|
| 2 | Jobs | 12 - 10 Amps SP, 7.5 KA, MCBs
9 - 15 Amps SP, 7.5 KA, MCBs
3 - 30 Amps SP, 7.5 KA, MCBs | Each |
|---|------|---|------|

Outgoing:

- | | | | |
|---|------|--|------|
| 2 | Jobs | 15- 10 Amps SP, 7.5 KA, MCBs
9 - 15 Amps SP, 7.5 KA, MCBs
3 - 30 Amps SP, 7.5 KA, MCBs | Each |
|---|------|--|------|

E. SEC: E: EARTHING:

- | | | | | | | |
|----|---|-----|--|------|--|--|
| 1. | 1 | Job | Provide, install, test and commission Earth point measuring an earth resistance of not more than "ONE OHM" with 600mm x 600MM x 5mm thick copper plate, buried 5 meters deep or to the depth of water table, whichever is less, fill with lime, salt and charcoal in appropriate ratio, also construct 450 x 450 x 450 deep inspection chamber, complete with heavy duty C.I. cover with frame, complete in all respects as per drawings and specifications. | Each | | |
|----|---|-----|--|------|--|--|

S.No.	Quantity	Description	Unit	Rate in Figure Rupees	Rate in Words Rupees	Amount
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2. 30 Mtrs Provide, lay and connect 2x8 SWG copper conductors in 32mm dia G.I. Pipe from earth plate to DB. Mtr

F. SEC: F: TELEPHONE SYSTEM:

01. 40 Mtrs Provide, lay and connect 5 pairs telephone cable, laid in 25mm dia D CLASS PVC conduit recessed underground, complete with all accessories. Mtr

02. 2 Jobs Provide and install 5 pairs telephone junction box, 1.5mm thick sheet steel fabricated with hinged door, having 2 x 5 pairs telephone tag blocks. Job

03. 42 Nos Provide, wire and connect telephone points wired with 2 pairs telephone cable in 20mm dia high impact PVC conduit recessed in floor/wall, complete with all accessories. Each

TOTAL NON-SCHEDULE ITEMS (ELECTRICAL WORKS) : Rs.

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