

## Chapter No. 33.05

### RECESSED HDPE PIPE WIRING SYSTEM WITH MODULAR SWITCHES:

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
33.05		Wiring in PVC insulated copper conductor single core FRLS cable (ISI marked), 1100volts grade to be laid in HDPE electrical conduit pipe 20mm/25mm dia. ISI Marked, recessed in wall etc., complete with powder coated/anodized concealed metal boxes required for suitable number of modules, for having electronic fan regulators, bell push, electronic buzzer, 3pin 6Amp., 3pin 16/20Amp. Sockets and 6Amp./16/20Amp. Switches (Screw Type Modular Accessories) etc., and covered with Frame Plate etc., & including the cost of required number of modular switches/sockets, step type electronic fan regulator 100watts, PVC connector (For Fan Box and Electronic Buzzer), Steel Hooks, Cast Iron circular Inspection box (Recessed Type and Deep Type) HDPE electrical conduit pipe & copper wire and other petty material etc. including the cost of cutting and filling up of chases:-								
(i) a		Wiring fan point without fan box in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.								
		Unit :-	1	Each						
I		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)								
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)								
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade								
(iv)		Steel hook (for hold the pipe in the wall)								
(v)		HDPE pipe bend 20mm dia.								
(vi)		Cast iron circular inspection box 20mm dia. (3" deep)								
(vii)		PVC connector								
(viii)		Powder coated concealed metal box with brass lugs three module(Single space for 6amp. switch and double space for fan regulator)								
(ix)		Modular cover frame three module								
(x)		6amp. one way modular switch (one module)								
(xi)		Step type modular electronic fan regulator 100watts (two module)								

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Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(i) b		Wiring fan point with sheet metal fan box (shape hexagonal & sheet thickness not less than 1.60 mm) in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with step type electronic fan regulator 100watts.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)	Metre	5.00	48.49	242.45				
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.20	54.00	10.80				
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	Metre	12.50	9.64	120.50				
(iv)		Steel hook (for hold the pipe in the wall)	Each	5.00	3.38	16.90				
(v)		HDPE pipe bend 20mm dia.	Each	1.00	24.97	24.97				
(vi)		Cast iron circular inspection box 20mm dia. (1½" deep surface type)	Each	1.00	19.91	19.91				
(vii)		PVC connector	Each	1.00	3.98	3.98				
(viii)		Brown bakelite white glazed backside painted sheet 3mm thick (including for sheet metal fan box)	Sq. inch	50.00	0.25	12.50				
(ix)		Powder coated concealed metal box with brass lugs three module(Single space for 6amp. switch and double space for fan regulator)	Each	1.00	36.93	36.93				
(x)		Modular cover frame three module	Each	1.00	45.67	45.67				
(xi)		6amp. one way modular switch (one module)	Each	1.00	56.93	56.93				
(xii)		Step type modular electronic fan regulator 100watts (two module)	Each	1.00	299.05	299.05				
(xiii)		Sheet metal hexagonal fan box (1.60mm thick)	Each	1.00	69.63	69.63				
		Total - I				960.22				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.960.22				9.60				
		Add contractor's profit @ 10% i.e. on Rs. 969.82				96.98				
		Add labour cess @ 1% i.e. on Rs. 1066.8				10.67				
						1077.47	1077.47			1077.47
<b>II</b>		<b>Labour</b>								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/10	164.69	16.47				
(ii)		Brick layer (2nd Class)	Day	1/8	190.00	23.75				
(iii)		Mazdoor (Skilled)	Day	1/10	164.69	16.47				
		Total - II				56.69				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.56.69				0.57				
		Add contractor's profit @ 21.5% i.e. on Rs. 57.26				12.31				

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Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(ii)		Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade.								
		Unit :-	1	Each						
I		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)	Metre	5.00	48.49	242.45				
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.20	54.00	10.80				
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	Metre	12.50	9.64	120.50				
(iv)		Steel hook (for hold the pipe in the wall)	Each	5.00	3.38	16.90				
(v)		HDPE pipe bend 20mm dia.	Each	1.00	24.97	24.97				
(vi)		Cast iron circular inspection box 20mm dia. (3" deep)	Each	1.00	25.59	25.59				
(vii)		Powder coated concealed metal box with brass lugs one module or two module	Each	1.00	31.65	31.65				
(viii)		Modular cover frame one or two module	Each	1.00	34.41	34.41				
(ix)		6amp. one way modular switch (one module)	Each	1.00	56.93	56.93				
		Total - I				564.20				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.564.2				5.64				
		Add contractor's profit @ 10% i.e. on Rs. 569.84				56.98				
		Add labour cess @ 1% i.e. on Rs. 626.82				6.27				
						633.09	633.09			633.09
II		<b>Labour</b>								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/12	164.69	13.72				
(ii)		Brick layer (2nd Class)	Day	1/10	190.00	19.00				
(iii)		Mazdoor (Skilled)	Day	1/12	164.69	13.72				
		Total - II				46.44				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.46.44				0.46				
		Add contractor's profit @ 21.5% i.e. on Rs. 46.9				10.08				
		Add labour cess @ 1% i.e. on Rs. 56.98				0.57				
		Labour for	1	Each		57.55				
		Labour for	1	Each		57.55	57.55		57.55	
		Cost for	1	Each			690.64			
		Add 10% for sub mountainous region								5.76
		Labour for	1	Each						63.31

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 Each								696.40
(iii)		Wiring call-bell point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade with bell push and electronic buzzer 230 volts AC (including the cost of bell push, electronic buzzer & powder coated concealed metal box for electronic buzzer).								
		Unit :- 1 Each								
I		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)	Metre	5.00	48.49	242.45				
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.20	54.00	10.80				
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	Metre	12.50	9.64	120.50				
(iv)		Steel hook (for hold the pipe in the wall)	Each	5.00	3.38	16.90				
(v)		HDPE pipe bend 20mm dia.	Each	1.00	24.97	24.97				
(vi)		Cast iron circular inspection box 20mm dia. (1½" deep surface type)	Each	1.00	19.91	19.91				
(vii)		Powder coated concealed metal box with brass lugs one module or two module(one box for bell push and one box for electronic buzzer)	Each	2.00	31.65	63.30				
(viii)		Modular cover frame one or two module	Each	1.00	34.41	34.41				
(ix)		6amp. one way modular bell push (one module)	Each	1.00	68.19	68.19				
(x)		Brown bakelite white glazed backside painted sheet 3mm thick	Sq. inch	16.00	0.25	4.00				
(xi)		Electronic buzzer 230 volts AC	Each	1.00	33.44	33.44				
		Total - I				638.87				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.638.87				6.39				
		Add contractor's profit @ 10% i.e. on Rs. 645.26				64.53				
		Add labour cess @ 1% i.e. on Rs. 709.79				7.10				
						716.89	716.89			716.89
II		<b>Labour</b>								
		Taking output 1 Each								
(i)		Wireman (1st Class)	Day	1/12	164.69	13.72				
(ii)		Brick layer (2nd Class)	Day	1/10	190.00	19.00				
(iii)		Mazdoor (Skilled)	Day	1/12	164.69	13.72				
		Total - II				46.44				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.46.44				0.46				
		Add contractor's profit @ 21.5% i.e. on Rs. 46.9				10.08				
		Add labour cess @ 1% i.e. on Rs. 56.98				0.57				
		Labour for 1 Each				57.55				

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Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(iv)		Wiring 3 pin 6 Amp. wall socket (Shuttered) point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)	Metre	2.50	48.49	121.23				
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.10	54.00	5.40				
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	Metre	6.24	9.64	60.15				
(iv)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq.mm, 1100volts grade	Metre	3.12	6.51	20.31				
(v)		Steel hook (for hold the pipe in the wall)	Each	3.00	3.38	10.14				
(vi)		HDPE pipe bend 20mm dia.	Each	1.00	24.97	24.97				
(vii)		Cast iron circular inspection box 20mm dia. (1½" deep surface type)	Each	1.00	19.91	19.91				
(viii)		Powder coated concealed metal box with brass lugs three module (Single space for 6amp. switch and double space for 3pin 6amp. socket)	Each	1.00	36.93	36.93				
(ix)		Modular cover frame three module	Each	1.00	45.67	45.67				
(x)		6amp. one way modular switch (one module)	Each	1.00	56.93	56.93				
(xi)		6amp. 3pin modular socket with shuttered (two module)	Each	1.00	87.59	87.59				
		Total - I				489.23				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.489.23				4.89				
		Add contractor's profit @ 10% i.e. on Rs. 494.12				49.41				
		Add labour cess @ 1% i.e. on Rs. 543.53				5.44				
						548.97	548.97			548.97
<b>II</b>		<b>Labour</b>								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/16	164.69	10.29				
(ii)		Brick layer (2nd Class)	Day	1/10	190.00	19.00				
(iii)		Mazdoor (Skilled)	Day	1/16	164.69	10.29				
		Total - II				39.58				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.39.58				0.40				
		Add contractor's profit @ 21.5% i.e. on Rs. 39.98				8.60				
		Add labour cess @ 1% i.e. on Rs. 48.58				0.49				
		Labour for	1	Each		49.07				





Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(v)		Wiring 3 Pin 6 Amp. Plug control comprising wall socket (shuttered) and switch including bonding to existing earth with PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq. mm, 1100volts grade complete.								
		Unit :-	1	Each						
<b>I</b>		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)	Metre	0.45	48.49	21.82				
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.05	54.00	2.70				
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	Metre	1.80	9.64	17.35				
(iv)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1 sq.mm, 1100volts grade	Metre	0.90	6.51	5.86				
(v)		Powder coated concealed metal box with brass lugs three module (Single space for 6amp. switch and double space for 3pin 6amp. socket)	Each	1.00	36.93	36.93				
(vi)		Modular cover frame three module	Each	1.00	45.67	45.67				
(vii)		6amp. one way modular switch (one module)	Each	1.00	56.93	56.93				
(viii)		6amp. 3pin modular socket with shuttered (two module)	Each	1.00	87.59	87.59				
		Total - I				274.85				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.274.85				2.75				
		Add contractor's profit @ 10% i.e. on Rs. 277.6				27.76				
		Add labour cess @ 1% i.e. on Rs. 305.36				3.05				
						308.41	308.41			308.41
<b>II</b>		<b>Labour</b>								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/20	164.69	8.23				
(ii)		Brick layer (2nd Class)	Day	1/20	190.00	9.50				
(iii)		Mazdoor (Skilled)	Day	1/20	164.69	8.23				
		Total - II				25.96				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.25.96				0.26				
		Add contractor's profit @ 21.5% i.e. on Rs. 26.22				5.64				
		Add labour cess @ 1% i.e. on Rs. 31.86				0.32				
		Labour for	1	Each		32.18				
		Labour for	1	Each		32.18	32.18		32.18	
		Cost for	1	Each			340.59			
		Add 10% for sub mountainous region								3.22
		Labour for	1	Each						35.40

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Cost for 1 Each								343.81
(vi)		Wiring 3 pin 16/20 amp. power plug control (shuttered) and switch.								
		Unit :- 1 Each								
I		<b>Materials</b>								
(i)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.05	54.00	2.70				
(ii)		Powder coated concealed metal box with brass lugs three module (Single space for 16amp. switch and double space for 3pin 16amp. socket)	Each	1.00	36.93	36.93				
(iii)		Modular cover frame three module	Each	1.00	45.67	45.67				
(iv)		16/20amp. one way modular switch (one module)	Each	1.00	85.09	85.09				
(v)		16/20amp. 3pin modular socket with shuttered (two module)	Each	1.00	127.63	127.63				
		Total - I				298.02				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.298.02				2.98				
		Add contractor's profit @ 10% i.e. on Rs. 301				30.10				
		Add labour cess @ 1% i.e. on Rs. 331.1				3.31				
						334.41	334.41			334.41
II		<b>Labour</b>								
		Taking output 1 Each								
(i)		Wireman (1st Class)	Day	1/16	164.69	10.29				
(ii)		Brick layer (2nd Class)	Day	1/10	190.00	19.00				
(iii)		Mazdoor (Skilled)	Day	1/20	164.69	8.23				
		Total - II				37.52				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.37.52				0.38				
		Add contractor's profit @ 21.5% i.e. on Rs. 37.9				8.15				
		Add labour cess @ 1% i.e. on Rs. 46.05				0.46				
		Labour for 1 Each				46.51				
		Labour for 1 Each				46.51	46.51		46.51	
		Cost for 1 Each					380.92			
		Add 10% for sub mountainous region								4.65
		Labour for 1 Each								51.16
		Cost for 1 Each								385.57

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(vii)		Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete without control switch.								
		Unit :-	1	Each						
I		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)	Metre	2.50	48.49	121.23				
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.08	54.00	4.32				
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	Metre	5.00	9.64	48.20				
(iv)		Steel hook (for hold the pipe in the wall)	Each	3.00	3.38	10.14				
(v)		HDPE pipe bend 20mm dia.	Each	1/2	24.97	12.49				
(vi)		Cast iron circular inspection box 20mm dia. (3" deep)	Each	1.00	25.59	25.59				
		Total - I				221.97				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.221.97				2.22				
		Add contractor's profit @ 10% i.e. on Rs. 224.19				22.42				
		Add labour cess @ 1% i.e. on Rs. 246.61				2.47				
						249.08	249.08			249.08
II		<b>Labour</b>								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/20	164.69	8.23				
(ii)		Brick layer (2nd Class)	Day	1/20	190.00	9.50				
(iii)		Mazdoor (Skilled)	Day	1/20	164.69	8.23				
		Total - II				25.96				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.25.96				0.26				
		Add contractor's profit @ 21.5% i.e. on Rs. 26.22				5.64				
		Add labour cess @ 1% i.e. on Rs. 31.86				0.32				
		Labour for	1	Each		32.18				
		Labour for	1	Each		32.18	32.18		32.18	
		Cost for	1	Each			281.26			
		Add 10% for sub mountainous region								3.22
		Labour for	1	Each						35.40
		Cost for	1	Each						284.48

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
(viii)		Wiring light point in PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq. mm, 1100volts grade complete with double control switches.								
		Unit :-	1	Each						
I		<b>Materials</b>								
(i)		HDPE electrical conduit pipe 20mm dia. (ISI marked)	Metre	7.00	48.49	339.43				
(ii)		25mm thick cement plaster 1:6 in two coats work (CSR Item No. 15.35 Rs.109.22-56.22)	Sq.m	0.25	54.00	13.50				
(iii)		PVC insulated copper conductor single core FRLS cable (ISI marked) overall 1.5 sq.mm, 1100volts grade	Metre	17.60	9.64	169.66				
(iv)		Steel hook (for hold the pipe in the wall)	Each	7.00	3.38	23.66				
(v)		HDPE pipe bend 20mm dia.	Each	1.00	24.97	24.97				
(vi)		Cast iron circular inspection box 20mm dia. (3" deep)	Each	1.00	25.59	25.59				
(vii)		Cast iron circular inspection box 20mm dia. (1½" deep surface type)	Each	1.00	19.91	19.91				
(viii)		Powder coated concealed metal box with brass lugs one module or two module	Each	2.00	31.65	63.30				
(ix)		Modular cover frame one or two module	Each	2.00	34.41	68.82				
(x)		6amp. two way modular switch (one module)	Each	2.00	68.82	137.64				
		Total - I				886.48				
		Sundries such as carriage of material and other hidden charges etc.@1% on Rs.886.48				8.86				
		Add contractor's profit @ 10% i.e. on Rs. 895.34				89.53				
		Add labour cess @ 1% i.e. on Rs. 984.87				9.85				
						994.72	994.72			994.72
II		<b>Labour</b>								
		Taking output	1	Each						
(i)		Wireman (1st Class)	Day	1/12	164.69	13.72				
(ii)		Brick layer (2nd Class)	Day	1/12	190.00	15.83				
(iii)		Mazdoor (Skilled)	Day	1/12	164.69	13.72				
		Total - II				43.27				
		Sundries such as uses of tools and other hidden charges etc.@1% on Rs.43.27				0.43				
		Add contractor's profit @ 21.5% i.e. on Rs. 43.7				9.40				
		Add labour cess @ 1% i.e. on Rs. 53.1				0.53				
		Labour for	1	Each		53.63				
		Labour for	1	Each		53.63	53.63		53.63	
		Cost for	1	Each			1048.35			
		Add 10% for sub mountainous region								5.36

Sr. No.	Code No.	Description	Unit	Quantity	Plain			For Sub-Mountainous Region		
					Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)	Rate (In Rs.)	Cost (In Rs.)	Total (In Rs.)
1	2	3	4	5	6	7	8	9	10	11
		Labour for 1 Each								58.99
		Cost for 1 Each								1053.71