

Name of work: Construction of Academic Block No.2 at College of Engineering, Muttathara

Tender Schedule

Appendix -A : Building proper					
ITEM NO	QUANTITY	DESCRIPTION	UNIT	RATE (in Rupees)	AMOUNT (in Rupees)
1		Boring ,providing,and installing bored cast-in-situ reinforcedcement concrete pilesof grade M-25 of specified dametre and length below the pile cap ,to carry a safeworking load not less than specified,excluding the cost of steel reinforcement but including the cost of boaring ,with Bentonite solution and temperory casing of appropriateate length for setting out and removal of same and lengh of pile to be embedded in the pile cap etc,all complete,including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pilecap)			
a	540 m	PC-2-(50cm DIA)	M	2436.20 Rs.Two thousand four hundred and thritysix and paise twenty	13,15,548
b	120m	PC-1-(50cm DIA)	M	2436.20 Rs.Two thousand four hundred and thritysix and paise twenty	2,92,344
c	90m	PC-3-(50cm DIA)	M	2436.20 Rs.Two thousand four hundred and thritysix and paise twenty	2,19,258
d	220m	PC-5-(60cm DIA)	M	3119.10 Rs.Three thousand one hundred and nineteen and paise ten	6,86,202
e	170m	PC-4-(60cm DIA)	M	3119.10 Rs.Three thousand one hundred and nineteen and paise ten	5,30,247
f	40m	Lift portion (50cm dia)	M	2436.20 Rs.Two thousand four hundred and thritysix and paise twenty	97,448
2	26 m3	Demolishing RCC work manually /by mechanical means including stacking of steel bars and disposal of unserviceable material within within 50 meters lead as per direction of Engineer -in -charge(at top of pile) (SH. 15.2.1)	m3	1193.40 Rs.One thousand one hundred and ninetythree and paise forty	31,028

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3	800 m3	Earth work excavation by mechanical means (Hydraulic excavator)/Manual means over areas (exceeding 30 cm depth 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth ,lead upto 50m and lift upto 1.5m,disposed earth to be levelled and neatly dressed (SH- 2.6.1)	M3	169.75 Rs.One hundred and sixty nine and paise seventy five	1,35,800
4	230 m3	Filling the excavated earth (cut gravel) brought from outside in the scheme area ,sides of foundation etc in layers not exceeding 20 cm depth ,consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.5m (SH: 2.25)	M3	619.45 Rs.Six hundred and nineteen and paise forty five.	1,42,474
5	150 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40mm nominal size) (SH: 4.1.8)	M3	5737.80 Rs.Five thousand seven hundred and thirty seven and paise eighty	8,60,670
6	120 m3	Providing & constructing Random rubble Masonry using hard granite stones obtained from approved quarry with bond stones at every 0.5 sqm of wall surface in cement mortar in mix 1:6 without pinning on face but including raking out joints & pointing flush in same mortar including curing etc complete as per specifications in foundations and plinth (Rate includes cost of bond stones wherever provided) Mix ratio is specified is for cement ,course sand - (For retaining the filled earth at CBI plot boundary) including levelling up with cement concrete 1:6:12 (one cement, 6 coarse sand, 12 graded stone aggregate 20mm nominal size) (SH: 7.1.1)	M3	5198.15 Rs.Five thousand one hundred and ninety eight and paise fifteen	6,23,778
7	350m3	Providing and laying in position machine batched and machine mixed design M-25 grade concrete for reinforced cement concrete works, using cement content as per approved design mix including pumping of concrete to site of laying but excluding the cost of centering shuttering finishing and reinforcement including admixtures in recommended proportions as per IS 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per the direction of engineer in charge Note:-Cement content considered in this item is @330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately (for all work upto plinth Level) (SH: 5.33.1)	M3	7908.75 Rs.Seven thousand nine hundred and eight and paise seventy five	27,68,063

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8	625 m3	Providing and laying in position machine batched and machine mixed design M-25 grade concrete for reinforced cement concrete works, using cement content as per approved design mix including pumping of concrete to site of laying but excluding the cost of centering shuttering finishing and reinforcement including admixtures in recommended proportions as per IS 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per the direction of engineer in charge. Note:-Cement content considered in this item is @330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately (for all work above plinth level to 5th floor level) (SH: 5.33.2)	M3	8732.00 Rs. Eight thousand seven hundred and thirtytwo only	54,57,500
9	580 m2	Centering and shuttering including strutting, propping etc and removal of form for : Foundations, footings, bases of columns, etc for mass concrete (SH: 5.9.1)	M2	215.50 Rs. Two hundred and fifteen and paise fifty	1,24,990
10	4000 m2	Centering and shuttering including strutting, propping etc and removal of form for: Lintels, beams, plinth beams, girders, brusses and cantilevers (SH: 5.9.5)	M2	386.00 Rs. Three hundred and eighty six only	15,44,000
11	2600 m2	Centering and shuttering including strutting, propping etc and removal of form for: Suspended floors, roofs, landings, balconies and access platform etc (SH: 5.9.3)	M2	476.50 Rs. Four hundred and seventy six and paise fifty.	12,38,900
12	1010 m2	Centering and shuttering including strutting, propping etc and removal of form for: Columns, pillars, piers, abutments, posts and struts (SH: 4.3.3)	M2	521.20 Rs. Five hundred and twenty one and paise twenty	5,26,412
13	70 m2	Centering and shuttering including strutting, propping etc and removal of form for : stairs (excluding landings) except spiral staircases (SH: 5.9.7)	M2	433.35 Rs. Four hundred and thirty three and paise thirty five	30,335
14	1,50,000kg	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete (Thermo-Mechanically-Treated bars) (SH: 5.22.6 & 5.22A.6)	KG	76.10 Rs. Seventy six and paise ten	1,14,15,000
15	655 m3	Providing and constructing solid cement concrete block masonry in CM 1:6 (1 cement, 6 course sand) of size 40 x 20 x 20 cm using factory made load bearing, approved quality cement blocks of specified size of grade (D-4) Density of blocks not less than 1800 kg/cum, Minimum average compressive strength 4 N/mm ² and minimum strength of individual unit 3.2 N/mm ² etc, confirming to IS 2185 part 1 1979 setting in position, curing raking out joints, including scaffolding etc upto FLOOR LEVEL FIVE with all lead and lift and all as per specifications and direction of Engineer-in-charge	M3	4213.90 Rs. Four thousand two hundred and thirteen and paise ninety.	27,60,105

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16	14 m3	Providing wood work(second class teak wood) in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately)-(SH: 9.1.1)	M3	1,33,107.50 Rs. One lakh thirtythree thousand one hundred and seven and paise fifty.	18,63,505
17	430 m2	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked MS pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer -in-charge (Second class teakwood-35mm thick shutters)-(SH: 9.5.1.1)	M2	3600.85 Rs. Three thousand six hundred and paise eightyfive.	15,48,366
18	430 m2	Providing and fixing 12mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured) Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick -- Marine plywood conforming to IS: 710 (SH: 9.126.1)	M2	1481.00 Rs. One thousand four hundred and eightyone only.	6,36,830
19	360 m2	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured) Panelling for panelled or panelled and glazed shutters 25mm to 40mm thick- (Float glass panes - 5.5mm thick glass panes) (sh: 9.7.7.2)	M2	1406.45 Rs. One thousand four hundred and six and paise fortyfive.	5,06,322
20	370 m2	Providing and fixing wooden grill (teak wood) of size 25 mm X 25 mm Square of required pattern as per drawing in frames of windows including all labour, materials etc complete.	M2	665.60 Rs. Six hundred and sixtyfive and paise sixty.	2,46,272
21	2.55 m2	Providing and fixing, bright finished, best quality brass square rods of size 50 x 50 mm, inserting in the slot already made on the surface of door shutters as per drawings, including all labour and materials, etc complete (0.66M x 1.93M) - For the front door of academic block building.	m2	1727.00 Rs. One thousand seven hundred and twenty seven only.	4,404
22	4 m2	Providing and fixing panelling, or panelling and glazing, in panelled, or panelled and glazed, shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured) Panelling for panelled or panelled and glazed shutters 25 mm. to 40 mm. thick, etc. complete (using second class teak wood) (SH: 9.7.1)	m2	2900.80 Rs. Two thousand nine hundred and paise eighty only.	11,603

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23	92 m	Providing and fixing factory made uPVC door frame made of Upvc extruded sections of size 65mm x 55mm with wall thickness 2 mm (+/-0.2mm) corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws reinforcing hinge side vertical of the frames with PVC profile of size 28mm x 30mm having wall thickness 2 mm (+/-0.2 mm) including providing and fixing 3 nos of 125mm long stainless steel hinges to the frame ,fixing the frame with jamb with required number &size of anchor dash fasteners ,all complete as per manufacturers specifications and direction of Engineer in charge (SH: 9.143)	m	403.10 Rs. Four hundred and three and paise ten	37,085
24	27 m ²	Providing and fixing 37 mm thick factory made PVC door shutter ,styles and rails made of PVC hollow section of size 100mm x 37mm with wall thickness 2 mm (+/-0.2mm)with inbuilt head on one side, styles and rails miltered cut and joint at the corners by means of 2 nos of plastic brackets of size 75mm x 220mm at each corner and stainless steel screws ,reinforcing the hinge side of style by inserting PVC profiles of size 28mm x 30mm, with wal thickness (+/-0.2mm).Lock rail of size 100mm x 37mm, wall thickness 2 mm (+/-0.2mm) will be fixed to the vertcal styles ,providing with PVC snapfit beads and panel of size 100mm x 20mm ,and inserting 2 nos tie bar of 6mm dia and fastening with nuts and washers complete ,all as per manufacturers specifications and direction of Engineer -in-charge (SH: 9.144)	m ²	2778.90 Rs.Two thousand seven hundred and seventyight and paise ninety	75,030
25	600 Nos.	Providing 40 x 5mm flat iron hold fast 40 cm long including fixing to frame with 10mm diameter bolts ,nuts and wooden plugs and embedding in cement concrete block 30 x 10 x 15 cm ,1:3:6 mix (1 cement:3 course sand :6 graded stone aggregate 20mm nominal size) (SH: 9.5.3)	Each	139.00 Rs.One hundred and thirtynine only	83,400
26	47 Nos.	Providing and fixing ISI marked oxidised MS tower bolt black finish (barrel type) with necessary screws etc complete (250 x 10mm) (SH: 9.63.1)	Each	70.30 Rs.Seventy and paise thrity	3,304
27	47 Nos.	Providing and fixing ISI marked oxidised MS Handles conforming to IS :4992 with necessary screws etc complete(125 mm) (SH: 9.66.1)	Each	28.80 Rs. Twentyeight and paise eighty	1,354
28	47 Nos.	Providing and fixing bright finished brass 100mm mortice latch and lock with 6 levers and pair of lever handles of approved quality with necessary screws etc complete (SH: 9.76)	Each	592.85 Rs.Five hundred and ninetytwo and paise eightyfive	27,864
29	47 Nos.	Providing and fixing bright finished brass handles with screws etc complete:125mm (SH: 9.81.1)	Each	194.60 Rs.One hundred and ninetyfour and paise sixty	9,146
30	320 nos.	Providing and fixing aluminium casement stays, 250mm or nearest size ISI marked, anodised (anodise coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade ,with necessary screws etc complete (SH: 9.102)	Each	63.00 Rs. Sixtythree only	20,160

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31	10 Nos.	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer(having brand logo with ISI,IS;3564,embossed on the body door (SH: 9.83)	Each	1340.70 Rs.One thousand three hundred and forty and paise seventy	13,407
32	200 Nos.	Providing and fixing MS fan clamp type I or II of 16mm dia bar bent to shape with hooked ends in RCC slabs or beams during laying, including painting the exposed portion of loop etc complete as per standard design (SH: 10.17)	Each	141.35 Rs.One hundred and fortyone and paise thirtyfive.	28,270
33	570 Nos.	Providing and fixingMS round holding down bolts with nuts & washer plate for roof truss	Each	77.00 Rs. Seventyseven only	43,890
34	640 Nos.	Providing and fixing best quality 150mm or nearest size aluminium hooks and eyes including all materials and labours etc complete	Each	34.80 Rs.Thirtyfour and paise eighty.	22,272
35	500 nos.	Providing and fixing best quality 75mm or nearest size M.S. hooks and eyes including cost of material and labour etc complete	Each	Rs.8.25 (Rs.Eight and paise twenty five)	4,125
36	250 Nos.	Providing and fixing best quality 250 mm or nearest size M.S. hooks and eyes including cost of material and labour etc complete	Each	Rs.15.10 (Rs.Fifteen and paie ten)	3,775
37	6200 m2	Plastering(cement plaster) with CM 1:4 (1 cement,4 fine sand) ,12mm thick, to the internal and external walls including all costs of materials and labour charges watering , curing etc complete (SH: 13.1.1)	M2	202.10 Rs.Two hundred and two and paise ten	12,53,020
38	3100 m2	Plastering(cement plaster) with CM 1:3 (1 cement, 3 fine sand) 6mm thick, to the under side of roof slab including all cost of materials and labour charges, watering, curing etc complete (SH: 13.16.1)	M2	157.25 Rs.One hundred and fiftyseven and paise twentyfive	4,87,475
39	1650 m2	Plastering (cement plaster) with CM 1:3(1 cement, 3 fine sand) finished with a floaing coat of neat cement, 12 mm thick, to the top of roof slab including all cost of materials and labour charges etc complete (SH: 13.7.1)	M2	256.10 Rs.Two hundred and fiftysix and paise ten	4,22,565
40	1100 m2	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces, etc., consisting of application of a slurry coat of neat cement using 2.75 kg / sqm of cement admixed with water proofing compound conforming to I S 2645 and approved by the Engineer in charge, over the neatly cleaned surface of RCC slab and laying 6 mm graded stone aggregate with 50 % of cement mortar 1 : 5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to I S : 2645 and approved by the Engineer in charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs and after two days of proper curing, applying a second coat of cement slurry using 2.75 kg / sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by the Engineer in charge with an average thickness of 120 mm and a minimum thickness of 65 mm etc., complete. (SH : 22.7.1)	m2	1171.30 Rs. One thousand one hundred and seventy one and paise thirty.	12,88,430

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41	1650 m2	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturer(SH: 13.21)	m2	5.50 Rs.Five and paise fifty.	9,075
42	105 m3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering 1:4:8(1 cement :4 course sand :8 graded stone aggregate 40mm nominal size)-For PCC flooring at GF (SH: 4.1.8)	M3	5737.80 Rs. Five thousand seven hundred and thirtyseven and paise eighty	6,02,469
43	135 m2	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 course sand : 6 graded stone ,aggrigate 20mm nominal size)well rammed and consolidated and grouted with fine sand ,including finishing the top smooth (SH: 4.17)	M2	597.40 Rs.Five hundred and ninetysseven and paise forty	80,649
44	2000m2	Providing and laying vitrified floor tiles in defferent sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622,of approved make,in all colours and shades,laid on 20mm thick cement mortar 1:4(1 cemant ,4 course sand),including grouting the joints with white cement and matching pigments etc,complete(Size of tile 600 x 600 mm) (SH: 11.41.2)	M2	1558.40 One thousand five hundred and fiftyeight and paise forty	31,16,800
45	180 m2	Providing and laying vitrified floor tiles in defferent sizes (thickness to be specified by the manufacturer)with water absorption less than 0.08% and conforming to IS 15622,of approved make,in all colours and shades,in skirting,riser of steps,over 12mm thick bed of cement mortar 1:3(1 cement ,3 course sand),including grouting the joints with white cement and matching pigments etc,complete(Size of tile 600 x 600 mm) (SH: 11.46.2)	M2	1547.50 Rs.One thousand five hundred and fortyseven and paise fifty	2,78,550
46	25 m2	Providing and laying designer floor tiles of size 300 x 300mm (18mm or nearest thickness), of 1st quality of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement:4 course sand),including pointing the joints with white cementand matching pigment ,etc complete as pper the direction of the Engineer-in-charge	m2	Rs.1,055.25 (Rs.One thousand and fifty five and paie twenty five)	26,381
47	5 m2	Providing and laying granite flooring using 18 mm thick granite , flooring laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing,curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Black granite area of slab upto 0.50sqm (SH: 8.2.1.1.)	m2	Rs.3,378.45 (Rs.Three thousand three hundred and seventy eight and paise forty five)	16,892

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48	300 m2	Providing and fixing 1st quality ceramic glazed wall tiles confirming to IS :15622(thickness to be specified by manufacturer),of approved make,in all colours,shades except burgundy,bottle green, black of any size as approved by Engineer -in charge ,in skirting ,risers or steps and dados,over 12 mm thick bed of cement mortar 1:3 (1 cement :3 course sand)and jointing with grey cement slurry @3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (SH: 11.36)	M2	983.80 Rs.Ninehundred and eightythree and paise eighty	2,95,140
49	60m2	Providing and laying Ceramic glazed floor tiles of size 300 x 300mm (thickness to be specified by the manufacturer), of 1st quality confirming to IS :15622, of approved make, in colours such as White,Ivory,Grey,Fume Red Brown,laid on 20mm thick cement mortar 1:4 (1 cement:4 course sand),including pointing the joints with white cementand matching pigment ,etc complete (SH: 11.37)	M2	998.90 Rs, Ninehundred and ninentyeight and paise ninenty	59,934
50	3000 m2	White washing with lime to give an even shade-New work (three or more coats) to the under side of floor/roof slab,beams etc (SH: 13.37.1)	M2	15.35 Rs.fifteen and paise thirtyfive	46,050
51	6200 m 2	Distempering with 1st quality acrylic washable distemper (ready mixed) of approved brand and manufacture to give an even shade-New work (two or more coats) over and including priming coat with water thinnable cement primer (SH: 13.42.1)	M2	55.00 Rs.fiftyfive only	3,41,000
52	2400 m2	Finishing walls with Acrylic Smooth exterior paint of required shade -New work (two or more coat applied @ 1.67 lit/10 sqm over and including priming coat of exterior primer applied @ 2.2 kg/10 sqm (SH:13.46.1)	M2	86.10 Rs.Eightysix and paise ten	2,06,640
52	125 m	Supplying and fixing jointing 110mm PVCpipe for down water pipe including cutting masonry or concrete floors/shade etc with all cost of materials and labour charges etc complete	M	516.10 Rs.Five hundred and sixteen and paise ten.	64,513
54	110 m2	Providing and laying interlocking cobbles 75mm thick(standard)minimum strength 4 kg/sqm over a sand bed 30 mm thick compacting with plate vibrator including hire charges of machinery labour materials etc complete as per direction of Engineer -in charge	M2	862.75 Rs.Eighthundred and sixtytwo and paise seventyfive	9,48,992
55	50 m2	Painting steel work with Deluxe Multy Surface Paint to give an even shade, two or more coat applied @ 0.9 lit/10 sqm over an undercoat of primer applied @ 0.8 lit/10sqm of approved brand and manufacture (SH: 13.48.3)	M2	92.25 Rs.Ninentytwo and paise twentyfive	4,613
56	1000 m2	Painting wood work for windows with synthetic enamel paint to give an even shade, two or more coat applied @ 0.9lit/10sq.m over an under coat of priper required shade applied @ 0.8lit/10sq.m of approved brand and manufacture, including cost of materials and labour charges etc complete (SH: 13.48.3)	m2	Rs.106.30 (Rs.One hundred and six and paise thirty)	1,06,300

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57	25 m2	Polishing on wood work with Ready mixed wax polish of approved brand and manufacture -New work-in the teak wood door including all cost of materials and labour etc. complete (SH: 13.69.1)	M2	84.00 Rs.Eightyfour only	2,100
58	120 m2	Providing best quality Poly carbonate sheet 6mm thick sheets roofing upto any pitch and fixing with polymer coated J or L hooks ,bolts and nuts 8 mm dia GI plain and butumen washers or with self drilling fastener and EPDM washers etc complete (excluding the cost of purlin ,rafters and trusses),including cutting sheets to size and shape wherever required (based on SH: 12.8)	M2	2464.00 Rs.Two thousand four hundred and sixtyfour only	2,95,680
59	3000 kg	Steel work in built up tubular (round,square, or rectangular hollow tubes etc)including cutting ,hoisting , fixing in position and applying a priming coat of approved steel primer,including welding and bolted with special shaped washers etc complete.(Hot finished welded type tubes) (Based on SH: 10.16.1)	kg	99.75 Rs.N inentynine and paise seventyfive	2,99,250
60	1 no.	Vertical load testing of piles in accordance with IS 2911 (Part 4) including installation of loading platform and preparation of pile haed or construction of test cap and dismantling of test cap after test etc .complete as per specification & the single pile upto 50 Tonne copacity(Routine test)	Each	17422.50 Rs.Seventeen thousand four hundred and twentytwo and paise fifty	17,423
61	1 no.	Vertical load testing of piles in accordance with IS 2911 (Part 4) including installation of loading platform and preparation of pile haed or construction of test cap and dismantling of test cap after test etc .complete as per specification & the single pile upto 50 Tonne copacity(Single pile bove 50 tonnes and upto 100 tonne copacity))	Each	26714.50 Rs.Twentsix thousand seven hundred and fourteen and paise fifty	26,715
		Total of Appendix- A			4,62,87,142
		Appendix - B : WATER SUPPLY AND SANITARY WORKS			
1		Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for water supply, including all PVC plain fitting i/c fixing the pipe with clamps at 1m spacing.This includes jointing of pipes & fittings,with one step PVC solvent cement and the cost of cutting chases and making good the same testing of joints complete as per direction of Engineer- in- charge,consealed the work ,including cutting chases and making good the wall etc			
a	100 m	15 mm nominal outer dia PVCpipe (10kgf/cm2)	m	223.35 Rs.Two hundred and twentythree and paise thirtyfive.	22,335
b	100 m	20 mm nominal outer dia PVCpipe (10kgf/cm2)	m	226.00 Rs.Two hundred and twentsix only	22,600

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c	100m	25 mm nominal outer dia PVCpipe (10kgf/cm2)	m	239.40 Rs.Two hundred and thirtynine and paise forty.	23,940
2		Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for water supply, including all PVC plain fittings .This includes jointing of pipes & fittings,with one step PVC solvent cement ,trenching,re-filling & teting of joints complete as per direction of Engineer-in-charge,external work			
a	100m	40 mm nominal outer dia PVCpipe (10kgf/cm2)	m	152.50 Rs.One hundred and fiftytwo and paise fifty.	15,250
b	100m	50 mm nominal outer dia PVCpipe (10kgf/cm2)	m	172.00 Rs.One hundred and seventytwo only	17,200
c	100 m	62.5 mm nominal inner dia PVCpipe (10kgf/cm2)	m	231.40 Rs.Two hundred and thirtyone and paise forty.	23,140
d	50 m	75 mm nominal inner dia PVCpipe (10kgf/cm2)	m	292.40 Rs.Two hundred and ninetytwo and paise forty.	14,620
e	100 m	100 mm nominal inner dia PVCpipe (10kgf/cm2)	m	516.10 Rs.Five hundred and sixteen andpaise ten.	51,610
f	100 m	150 mm nominal inner dia PVCpipe (10kgf/cm2)	m	692.90 Rs.Six hundred and ninetytwo and paise ninety.	69,290
3		Providing and fixing poly vinyl chloride(PVC) pipes,having thermal stability for water supply, including all PVC plain &threaded fittings including fixing the pipe with clamps at 1m spacing. .This includes jointing of pipes & fittings,with one step PVC solvent cement ,and testing of joints complete as per direction of Engineer-in-charge,internal work work exposed on walls			
a	100m	15 mm nominal outer dia PVCpipe(10kg/cm2)	m	118.30 Rs. One hundred and eighteen and paise thirty.	11,830
b	100 m	20 mm nominal outer dia PVCpipe(10kg/cm2)	m	129.30 Rs.One hundred and twentynine and paise thirty.	12,930
c	100 m	25 mm nominal outer dia PVCpipe(10kg/cm2)	m	142.70 Rs.One hundred and fortytwo and paise seventy.	14,270

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d	150 m	40 mm nominal outer dia PVCpipe(10kg/cm2)	m	226.65 Rs.Two hundred and twentysix and paise sixtyfive.	3,39,975
e	100 m	50 mm nominal outer dia PVCpipe(10kg/cm2)	m	262.70 Rs.Two hundred and sixtytwo and paise seventy.	26,270
4	30 Nos.	Providing and fixing CP brass Angle valve for basin mixer and geyser points of approved quality conforming to IS :8931 (SH: 18.53.1)	Each	519.00 Rs.Five hundred and nineteen only	15,570
5	12 nos.	Providing and fixing CP brass bib cock of approved quality coforming to IS::8931-(15 mm nominal bore) (SH: 18.49.1)	Each	414.90 Rs.Four hundred and fourteen and paise ninety	4,979
6	12 nos.	Providing and fixing CP brass long body bib cock of approved quality coforming to IS standards and weighing not lessthan 690gms- 15mm nominal bore (SH:18.51.1)	Each	506.10 Rs.Five hundred and six and paise ten	6,073
7	12 nos.	Providing and fixing CP brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms (15mm nominal bore) (SH:18.50.1)	Each	463.65 Rs.Four hundred and sixtythree and paise sixtyfive	5,564
8	12 nos.	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make coforming to IS:8931-(15mm nominal bore) (SH: 18.52.1)	Each	502.05 Rs.Five hundred and two and paise five	6,025
9	20 nos.	Cutting holes upto 15 x 15cm in RCC floors and roofs for passing drain pipe etc and repairing the hole after insertion of drain pipe etc with cement concrete 1:2:4(1 cement,:2 course sand :4 graded stone aggriate 20 mm nominal size) including finishing complete so as to make it leak proof. (SH: 18.77)	Each	230.60 Rs.Two hundred and thirty and paise sixty.	4,612
10	10 nos.	Constructing brick masonry manhole in cement mortar 1:4,(1 cement,4 course sand) with RCC top slab with 1:2:4 mix (1cemnt,2 course sand,4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 mix (1 cement,4 course sand,8 graded stone aggregate 40mm nominal size) - slab thickness-15cm, inside plastering 12 mm thick with cement mortar 1:3,(1 cement :3 course sand) finished with neat cement flushing coat and making channels in cement concrete 1:2:4'(1 cement:2coarse sand :4 graded stone aggregate 20 mm nominal size)finished with neat cemeent flushing coat etc. complete as per standared design:Inside size 90 x 80cm and 45 cm deep including CI cover with frame (light duty) 455 x 610 mm intenal dimensions,total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)With common burnt clay FPS (non modular) bricks of class designation 7.5 (SH: 19.7.1)	Each	10176.00 Rs.Ten thousand one hundred and seventysix only	1,01,760

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11	6 Nos.	Constructing brick masonry manhole in cement mortar 1:4,(1 cement,4 course sand) with RCC top slab with 1:2:4 mix (1cemnt, 2 course sand, 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:4:8 mix (1 cement,4 course sand,8 graded stone aggregate 40mm nominal size) inside plastering 12 mm thick with cement mortar 1:3,(1 cement :3 course sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4'(1 cement:2course sand :4 graded stone aggregate 20 mm nominal size)finished with a floating coat of neat cement complete as per standared design:Inside size 120 x 90cm and 90 cm deep including CI cover with frame (medium duty) 500mm mm intenal diameter,total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg)With common burnt clay FPS (non modular) bricks of class designation 7.5 (SH: 19.7.2.1)	Each	21141.00 Rs.Twentyone thousand one hundred and fortyone only	1,26,846
12	10 nos.	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed end):as per the direction of Engineer - in-charge-(15 mm) (based on SH:18.17.1)	Each	343.90 Rs.Three hundred and fortythree and paise ninety	3,439
13	10 nos.	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed end):as per the direction of Engineer - in-charge-(20 mm)	Each	403.10 Rs.Four hundred and three and paise ten	4,031
14	5 nos.	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed end):as per the direction of Engineer - in-charge-(25 mm) (SH: 18.17.1)	Each	600.60 Rs.Six hundred and paise sixty	3,003
15	5 Nos.	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed end):as per the direction of Engineer - in-charge-(32 mm)(SH: 18.17.2)	Each	787.75 Rs.Seven hundred and eightyseven and paise seventyfive	3,939
16	5 Nos.	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed end):as per the direction of Engineer - in-charge-(40 mm)(SH: 18.17.3)	Each	1158.20 Rs.One thousand one hundred and fiftyeight and paise twenty	5,791
17	5 Nos.	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed end):as per the direction of Engineer - in-charge-(50 mm) (SH: 18.17.4)	Each	1778.20 Rs.One thousand seven hundred and seventyeight and paise twenty	8,891
18	14 Nos.	Providing and fixing white vitreous china pedestal type water closet(Europian type) with seat and lid ,10 litre low level white vetreous china flushing cistern &Cpflush bend with fittings &CI brackets,40mm flush bend overflow arrangement with specials of standared make and mosquito proof coupl,ing of approved municipal design complete ,including painting of fittings and brackets,cutting and making good the walls and floors wherever required - WCpan with ISI marked white solid plastic seat and lid (SH: 17.2.2)	Each	3779.75 Rs.Three thousand seven hundred and seventynine and paise seventyfive	52,917

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19	2 Nos.	Providing and fixing water closet squatting pan(Indian type WC pan)with 100 mm sand cast Iron P or S trap,10 litre low levelwhite PVC flushing cistern,including flush pipe ,manually controlled device(handle lever)conforming to IS:7231, with all fittings and fixtures complete,including cutting and making good the walls and floors wherever required- White Vitreous china orissa pattern WC pan of size580 x 440mm with integral type	Each	4472.00 Rs.Four thousaand four hundred and seventytwo only	8,944
20	20 Nos.	Providing and fixing wash basin with CI brackets ,15 mmCP brass pillar taps,32mm CP brass waste of standared pattern ,including painting of fittings and brackets ,cuttings and making good the walls wherever require - White vetreous china wash basin size 400 x 400mm with pair of 15 mm CP brass pillar taps (SH: 17.7.6)	Each	2294.80 Rs.Two thousand two hundred and ninety four and paise eighty	45,896
21	10 Nos.	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430 x 260 x 350 mm sizes respectively with automatic flushing cistern with standared flush pipe and CP brass spreaders with brass unions and GI clamps complete ,including painting of fittings and brackets ,cutting and making good the wall and floors wherever required - One urinal basin with 5 litre white PVC automatic flushing cistern (SH: 17.4.1)	Each	3471.05 Rs.Three thousand four hundred and seventyone and paise five	34,711
22	20 Nos.	Providing and fixing PVC waste pipe for sink or wash basinincluding PVC waste fittings - flexible pipe-32 mm dia. (SH: 17.28.2.1)	Each	50.20 Rs.Fifty and paise twenty	1,004
23	10 Nos.	Providing and fixing 100mm sand cast iron grating for Gully trap (SH: 17.29)	Each	24.60 Rs.Twentyfour and paise sixty.	246
24	15 Nos.	Supplying and fixing 100 mm PVC multi floor trap trap in the toilet room	Each	112.90 Rs.One hundred and twelve and paise ninety	1,694
25	20 Nos.	Supplying and fixing PTMT 138 x 102 x 75 mm soap dish of approved quality in the toilet room including all cost of materials and labour charges for fixing etc complete	Each	183.65 Rs.One hundred and eightythree and paise sixtyfive	3,673
26	20 Nos.	Supplying and fixing PTMT 600 mm Towel rod of approved quality including all cost of materials and labour charges for fixing etc complete	Each	327.65 Rs.Three hundred and twentyseven and paise sixtyfive	6,553
27	10 Nos.	Supplying and fixing mirror of superior qualityand of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing - Reectangular shape 453 x 357mm (SH: 17.32.2)	Each	796.70 Rs.Seven hundred and ninetysix and paise seventy	7,967
28	1500 Litre	Providing and placing on terrace (at all floor levels)polyethlene water storage tank ISI ; 12701 marked ,with cover and suitable locking arrangements and making necessary holes forinlet ,outlet and over flow pipes but without fittings and the base support for tank (SH: 18.48)	Litre	5.60 Rs.five and paise sixty	8,400
29		Supplying and providing folowing specials to PVC line work			

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a	10 Nos.	a. 110 mm dia PVC Elbow	Each	Rs.171.40 (Rs.One hundred and seventy one and paise forty)	1,714
b	10 Nos.	b. 110mm dia PVC door Tee	Each	Rs.177.80 (Rs.One hundred and seventy seven and paise eighty)	1,778
c	5 Nos.	c. 110 mm dia Vent Cowl	Each	Rs.104.70 (Rs.One hundred and four and paise seventy)	524
d	10 Nos.	d. 75 mm dia PVC door Elbow	Each	Rs.133.70 (Rs.One hundred and thirty three and paise seventy)	1,337
e	10 Nos.	e. 75mm dia PVC door Tee	Each	Rs.152.30 (Rs.One hundred and fiftytwo and paise thirty)	1,523
f	5 Nos.	f. 75 mm dia Vent Cowl	Each	Rs.72.15 (Rs.Seventy two and paise fifiteen)	361
g	10 Nos.	g. 63 mm dia PVC door Elbow	Each	Rs.105.85 (Rs.One hundred and five and paise eighty five)	1,059
h	10 Nos.	h. 63 mm dia PVC door Tee	Each	Rs.116.30 (Rs.One hundred and sixteen and paise thirty)	1,163
30	4 Nos.	Providing and fixing ball valve (Brass) of approved quality, High or low pressure with plastic floats etc complete 25mm nominal bore (sh: 18.18.3)	Each	Rs.511.10 (Rs.Five hundred and eleven and paise ten)	2,044
31	12 nos.	Providing and fixing ready made silt pit of size 225 x 225 in position inclusive of all cost of labour, cost of materials and frixing charge in position etc. complete	Each	Rs.808.30 (Rs.Eight hundred and eight and paise thirty)	9,700
32	10 Nos.	Providng and fixing health facete of approved make as directed by the Enginee-in-charge	Each	Rs.646.00 (Rs.Six hundred and forty six only)	6,460
		Total of Appendix B			11,65,451
		Appendix- C - Electrification works			
		LT Electrification			

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1		Supply and wiring points according to IS 732-1989 in existing PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm PVC insulated stranded single core <i>copper conductor cable</i> 650V grade, and continuous earthing with 1.5 sq mm green coloured FR PVC insulated copper conductor cable , required qty of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, <i>modular type front plates (white or off white)</i> etc. up to and including 6 A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. (<i>Group B modular accessories</i>)			
a	271	Single control light point with 6A, 3 plate ceiling rose	Each	Rs.676.00 (Rs. Six hundred and seventy six only)	183196
b	2	Twin control light point with 6A, 3 plate ceiling rose	Each	Rs.1014.00 (Rs.One thousand and fourteen only)	2028
c	40	Single control light point without ceiling rose	Each	Rs.657.00 (Rs.Six hundred and fifty seven only)	26280
d	121	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator.	Each	Rs.1309.00 (Rs.One thousand three hundred and nine only)	158389
e	2	Call bell point with piano type 6 A bell push at one end and 6 A, 3 plate ceiling rose at other end	Each	Rs.714.00 (Rs.Seven hundred and fourteen only)	1428
f	16	Combined plug point with 6 A, 5 pin plug socket controlled by 6 A switch in the same switch board as that of light points.	Each	Rs.338.00 (Rs.Three hundred and thirty eight only)	5408
2	2	Supply and wiring 6A 3 pin sockets controlled by 6A SP switch in independent position.	Each	Rs.451.00 (Rs.Four hundred and fiftyone only)	902
3	514	Supply & fixing 2no 6A socket controlled by 2no 6A control switch modular type in company made box and front plate	Each	Rs.902.00 (Rs.Nine hundred and two only)	463628
4	2	Supply and fixing RJ 11 twin telephone sockets	Each	Rs.405.00 (Rs.Four hundred and five only)	810
5	20	Supply and installation of suitable size <i>MS rod type fan clamp</i> as per IS 732 as required.	Each	Rs.124.00 (Rs.One hundred and twenty four only)	2480
6	10	Supply and installation of suitable size <i>MS belt type fan clamp fabricated from MS flat (2 pieces)</i> as per IS 732 as required.	Each	Rs.182.00 (Rs.One hundred and eighty two only)	1820

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7	111	Conveyance installation testing and commissioning ceiling fan of all sizes using standard accessories including step regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or extending the original wiring etc. as required.	Each	Rs.100.00 (Rs.One hundred only)	11100
8	10	Conveyance installation testing and commissioning ceiling fan of all sizes on suitable size heavy guage 300mm long GI/ WI pipe including cutting, drilling, and painting the rod, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or extending the original wiring etc. as required.	Each	Rs.146.00 (Rs.One hundred and forty six only)	1460
9	2	Supply and providing every <i>additional length of down rod</i> of suitable size heavy gauge GI / WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required.	mtr	Rs.115.00 (Rs.One hundred and fifteen only)	230
10	110	Conveyance, installation, testing and commissioning of pre-wired fluorescent light fittings with all accessories and fluorescent lamps of all types <i>directly on wall</i> and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required	Each	Rs.138.00 (Rs.One hundred and thirty eight only)	15180
11	25	Conveyance, installation, testing and commissioning of pre-wired fluorescent fittings of all types complete with all accessories and fluorescent lamps etc. including supplying and fixing <i>ball and socket arrangements</i> on T.W round block, suspension down rod of <i>19 mm dia MS conduit</i> up to 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. a required.	Each	Rs.371.00 (Rs.Three hundred and seventy one only)	9275
12	10	Supplying and providing <i>extra H.G conduit down rod of 19 mm dia 2 x 1.00 m</i> long with 16/0.20 mm 3 core copper conductor flex wire conforming to relevant ISS or with the extended original wiring and giving connection etc. as required.	mtr	Rs.198.00 (Rs.One hundred and ninety eight only)	1980
13		<i>Supply</i> , conveyance, installation, testing and commissioning of pre-wired <i>fluorescent fitting</i> of the following types complete with all accessories and fluorescent lamps etc on suitable <i>GI pipe bend to shape, painted</i> and giving connections with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connection etc. as required.			

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a	11	S&F 2x18W Fluorescent street light fitting with aluminium housing, stove enameled CRCA sheet steel reflector cover, acrylic cover complete with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, high lumen tube, duly wired up for use on 230 V AC supply with lamps.	each	Rs.2468.00 (Rs.Two thousand four hundred and sixty eight only)	27148
b	40	Supply and fixing angle / straight brass lined skirt type, bakelite batten holder without shade and giving connection etc as required	Each	Rs.63.00 (Rs.Sixty three only)	2520
c	52	Supply and fixing 11W CFL lamp in the existing holder	Each	Rs.156.00 (Rs.One hundred and fifty six only)	8112
14	10	Supply and fixing cast aluminium stove enameled bulk head fitting with deep drawn anodised aluminium body, epoxy powder coated, heat resistant prismatic glass cover suitable for 9 W CFL to wall / ceiling including giving connections with required length of 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and making good the surface as required.	Each	Rs.601.00 (Rs.Six hundred and one only)	6010
15	171	Supply and fixing 6/16A shuttered socket with 16A control switch modular type in company made box and front plate.(Group B)	Each	Rs.665.00 (Rs.Six hundred and sixty five only)	113715
16		Supply and laying medium gauge PVC conduit conforming to IS 9537/1983 Part III n roof slab, jointing the pipes with PVC solvent cement, tying & fixing the conduit firmly with the re-inforcement etc. as required.			
a	2600	20 mm	mtr	Rs.41.00 (Rs.Forty one only)	106600
b	600	25 mm	mtr	Rs.49.00 (Rs.Forty nine only)	29400
17		Supply and fixing the following deep PVC accessories conforming to IS 3419/1988 along with the PVC conduits laid in concrete			
a	130	20 mm 1 way deep junction box	Each	Rs.50.00 (Rs.Fifty only)	6500
b	80	20 mm two way through junction box	Each	Rs.51.00 Rs.Fifty one only0	4080
c	60	20 mm 3 way angle junction box	Each	Rs.52.00 (Rs.Fifty two only)	3120
d	100	20 mm 4 way angle junction box	Each	Rs.55.00 (Rs.fifty five only)	5500
e	5	25 mm 1 way deep junction box	Each	Rs.53.00 (Rs.Fifty three only)	265
f	5	25 mm two way through junction box	Each	Rs.56.00 (Rs.fifty six only)	280

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g	5	25 mm 3 way angle junction box	Each	Rs.58.00 (Rs.Fifty eight only)	290
h	5	25 mm 4 way angle junction box	Each	Rs.61.00 (Rs.Sixty one only)	305
18		Supply and fixing the following sizes of medium guage <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>in recess</i> including cutting the wall and making good the damages etc as required.			
a	400	20mm	mtr	Rs.124.00 (R.One hundred and twenty four only)	49600
b	100	25mm	mtr	Rs.136.00 (Rs.One hundred and thirty six only)	13600
19		Supply and drawing 650/1100 V grade <i>PVC insulated stranded single core copper conductor cables</i> conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.			
a	1000	1.5sq mm 3 run(R/Y/B/Black/Green)	mtr	Rs.77.00 (Rs.Seventy seven only)	77000
b	855	1.5sq mm single run(green)	mtr	Rs.45.00 (Rs.Forty five only)	38475
c	855	2.5sq mm 2 run	mtr	Rs.81.00 (Rs.Eighty one only)	69255
d	110	4sq mm 2 run	mtr	Rs.106.00 (Rs.One hundred and six only)	11660
e	190	4sq mm 4 run	mtr	Rs.184.00 (Rs.One hundred and eighthy four only)	34960
f	190	6sq mm 4 run	mtr	Rs.260.00 (Rs.Two hundred and sixty only)	49400
20		Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of following sizes usig clamps noted along with the cables, spacing of clamps not exceeding 60cms making good the damages, colour washing etc as required.			
a	15	3.5 core 35 sq mm with factory made clamp	mtr	Rs.316.00 (Rs.Three hundred and sixteen only)	4740
21	50	Supply and drawing No.14 SWG copper along with 4sq.mm mains	mtr	Rs.26.00 (Rs.Twenty six only)	1300
22	800	Supply and drawing No.10 SWG copper along wiring	mtr	Rs.62.00 (Rs.Sixty two only)	49600

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23	2	Supply and providing superior quality copper earth socket suitable for No.14 SWG copper and Crimping	nos	Rs.18.00 (Rs. Eighteen only)	36
24	40	-Do- No.10 -Do -	nos	Rs.19.00 (Rs.Nineteen only)	760
25	0.5	Supplying and clamping 25 x 3 mm tinned Copper strip on wall	mtr	Rs.482.00 (Four hundred and eighty two only)	241
26		Supplying siemens / tropodur type nickel plated <i>single compression brass cable gland</i> for PVC insulated and PVC sheathed armoured aluminium/ copper conductor cable 1.1 KV grade, and making end termination suitable for 2/ 3/ 3½/ 4 core cable of the following sizes as required.			
a	2	35 sq mm	nos	Rs.469.00 (Rs.Four hundred and sixty nine only)	938
27		Supplying and providing <i>earth clamps</i> for siemens/ tropodur type cable glands of suitable length and other dimensions noted along with each size of glands for the following sizes of cables as required.			
a	2	35sq mm	nos	Rs.27.00 (Rs.Twenty seven only)	54
28		Supply of superior quality <i>aluminium tubular cable socket</i> and making core termination of cables of the following sizes including crimping etc. as required.			
a	6	35 sq mm	nos	Rs.16.00 (Rs.Sixteen only)	96
b	2	25 sq mm	nos	Rs.14.40 (Rs.Fourteen and paise forty)	29
29		Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required			
a	1	3ph 6W double cover TPN vertical DB with provision for fixing 4pole MCB/Isolator/RCCB as incomer and SP/TP MCB as outgoings IP54	nos	Rs.8960.00 (Rs.Eight thousand nine hundred and sixty only)	8960
b	4	3ph 6W double cover TPN DB with provision for fixing 4pole MCB/Isolator/RCCB as incomer and SP/TP MCB as outgoings IP54	nos	Rs.7700.00 (Rs.Seven thousand seven hundred only)	30800
30	6	3ph 4W double cover TPN DB with provision for fixing 4pole MCB/Isolator/RCCB as incomer and SP/TP MCB as outgoings IP54	nos	Rs.6434.00 (Rs.Six thousand four hundred and thirty four only)	38604

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31		Supply and installation of the following <i>accessories</i> suitable for 50 Hz , AC supply conforming to IS 8828-1995/ IEC 60898 of the following current ratings in the existing enclosure and giving connections as required			
a	1	S&F 63A 4P Minibreak Isolator	no	Rs.752.00 (Rs.Seven hundred and fifty two only)	752
b	4	S&F 40A 4P Minibreak Isolator	nos	Rs.716.00 (Rs.Seven hundred and sixteen only)	2864
c	6	S&F 32A 4P Minibreak Isolator	nos	Rs.667.00 (Rs.Six hundred and sixty seven only)	4002
d	4	Supply and fixing 40A 30mA FP RCCB	nos	Rs.2780.00 (Rs.Two thousand seven hundred and eighty only)	11120
e	6	Supply and fixing 25A 30mA FP RCCB	nos	Rs.2744.00 (Rs.Two thousand seven hundred and forty four only)	16464
f	4	Supplying and fixing 32A TP MCB 10kA	nos	Rs.908.00 (Rs.Nine hundred and eight only)	3632
g	2	Supplying and fixing 40A TP MCB 10kA	nos	Rs.1369.00 (Rs.One thousand three hundred and sixty nine only)	2738
h	96	Supplying and fixing 16A SP MCB 10kA	nos	Rs.219.00 (Rs.Two hundred and nineteen only)	21024
i	12	Supplying and fixing 10A SP MCB 10kA	nos	Rs.219.00 (Rs.Two hundred and nineteen only)	2628
j	36	Supplying and fixing 6A SP MCB 10kA	nos	Rs.219.00 (Rs.Two hundred and nineteen only)	7884
k	1	Supply and installation of cable box for 3 ph 6W DB	nos	Rs.974.00 (Rs.Nine hundred and seventy four only)	974
32		Cost of Fluorescent tube light fitting with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant,high lumen tube, duly wired up for use on 230 V AC supply . The fittings shall be made from CRCA MS sheet of minimum thickness 0.50 mm nominal thickness inside & outside.			
a	247	Suitable for single 28W T5 lamp	nos	Rs.1322.00 (Rs.One thousand three hundred and twenty two only)	326534

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33	121	Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories <i>excluding resistance type regulator</i> , wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.	nos	Rs.1853.00 (Rs.One thousand eight hundred and fifty three only)	224213
34		Supply, conveyance, installation, testing and commissioning of the following sizes of <i>exhaust fans</i> in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.			
a	7	300/ 305 mm, single phase light duty exhaust fan in metal frame (Group B)	nos	Rs.1828.00 (Rs.One thousand eight hundred and twenty eight only)	12796
b	1	450 mm, single phase, heavy duty, 1400 rpm exhaust fan in metal frame	nos	Rs.4157.00 (Rs.Four thousand one hundred and fifty seven only)	4157
35	3	Supply and providing <i>plate earthing</i> as per IS 3043 <i>with 1200x1200x12 mm GI/CI earth plate</i> , 50 mm GI watering pipe fixed to the earth plate with 25 x 3mm GI clamps, GI funnel with weld mesh, filling required quantity of charcoal including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 450 x 450 x 450 mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top. <i>(in ordinary soil)</i>	nos	Rs.1065.00 (Rs.One thousand and sixty five only)	31956
36		Supply and providing <i>test joint for the earthing system</i> using 2 Nos of the following sizes of strips including cutting and bending to shape, drilling necessary holes and fixed to the watering pipe etc as required.			
a	2	2x40x3mm GI strip	nos	Rs.215.00 (Rs.Two hundred and fifteen only)	430
37		Supply and providing the following sizes of <i>cast iron gully trap with covering</i> at the top of the inspection chamber of earth pit as required			
a	2	450x450x10mm	nos	Rs.929.00 (Rs.Nine hundred and twenty nine only)	1858
38	5	Supplying and connecting 25x6 GI strip from test joint to plate	mts	Rs.242.00 (Rs.Two hundred and forty two only)	1210

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39	12	Supply and providing <i>5 Kg. Dry Chemical Powder type Fire Extinguisher</i> with hose and clamps including fixing it to wall as required.	nos	Rs.2324.00 (Rs.Two thousand three hundred and twenty four only)	27888
40	1	Supply and providing <i>First Aid Chart</i> duly framed and placed in a conspicuous location for clear vision.	Each	Rs.204.00 (Rs.Two hundred and four only)	204
41	20	<i>Painting letters or figures</i> of the following sizes with enamel paint as identification mark to SB, DB, panel board etc as required 2.50 cm, 4 cm or 5 cm height	Each	Rs.12.00 (Rs.Twelve only)	240
42	2	Supply and providing <i>2mm thick</i> Elastomeric fire retardent insulating mat as per IS 15652/2006 to withstand 3.3 KV dielectric strength.	nos	Rs.1809.00 (Rs.One thousand eight hundred and nine only)	3618
43	1	Preparation of all drawings ,Sumitting and getting approval from electrical inspectorate, arrange inspection, getting sanction and energisation certificate from electrical inspectorate and KSEB,obtaining power allocation and our connection etc. for commissioning of the whole installation.	Job	Rs.15000.00 (Rs.Fiftyeen thousand only)	15000
				Total	2403733

Abstract

Appendix - A : Building proper	Rs. 4,62,87,142
Appendix - B : Water supply and Sanitary works	Rs. 11,65,451
Appendix - C : Electrification	Rs. 24,03,733
Total:	Rs. 4,98,56,326

Total Estimate P.A.C: Rupees Four Crore ninety eight lakh fifty six thousand three hundred and twenty six only)

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