Buildings ((C&M)	Division

P.W.D.

Thoothukudi

		SCHEDULE-'A'			
		Name of work: Construction of Veterinary Dispensary building at Osano othu in T	hoothukudi District		
SI. No	Approxi mate Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
1	151.00 Cum (One hundred and twenty seven cubic meter only)	Earth work excavation for foundation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	(Rupees Two hundred and nineteen and paise sixty only)	1M ³ (One cubic metre)	33160
2	30.00 Cum (Thirty cubic meter only)	Earth work open excavation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 mts. within the compound in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.	(Rupees One hundred and	1M ³ (One cubic metre)	3126
3	16.00 Cum (Sixteen cubic metres only)	Cement Concrete 1:5:10 (One Cement, Five crushed stone sand (M.sand) and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for Foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification. TNBP No.30 V, VI (S5) VII & 13	(Rupees Four thousand	1M ³ (One cubic metre)	70229
4	32.00 Cum (Thirty two cubic meter only)	Refilling with excavated earth other than sand with an initial lead of 100metres and depositing the earth as shown by the departmental officers in layers of not more than 15cm thick rammed, watered and well consolidated etc., complying with standard specification.	Rs. 33.60 (Rupees Thirty three and paise sixty only)	1M ³ (One cubic metre)	1075
5	37.00 Cum (Thirty seven cubic meter only)	Supplying and filling in basement with conveyed earth with a lead of 5 KMMR including loading into lorry conveying and unloading at site and laid in layers of not more than 15cm thick well rammed watered and well consolidated etc., complete, complying with standard specification.	Rs. 185.55 (Rupees One hundred and eighty five and paise fifty five only)	1M ³ (One cubic metre)	6865
6	21.00 Cum (Twenty one cubic meter only)	Supplying and filling in foundation, basement, etc with stone dust in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers	Rs. 243.20 (Rupees Two hundred and forty three and paise twenty only)	1M ³ (One cubic metre)	5107

SI. No	Approx mate Quar		Description of work & T.N.B.P. & N.B.C. No.		e in Figures and words	Unit for cal culation	Amount
7	109.00 S (One hundred nine square mo only)	etre	Supplying and erecting steel centering including necessary supports for plane surfaces for reinforced cement concrete works such as column footings , plinth beam , grade beam , stair case steps , Pedestal bed block covers etc. which require only nominal strutting using mild steel sheets of size 90 cm x 60 cm and 10 BG stiffeneded with mild steel angles of size 25 mm x 25 mm x 3 mm for boarding, laid over silver oak joints of size 10 cm x 6.50 cm spaced at about 75 cm centre to centre or at suitable intervals etc. complete complying with standard specification. (payment for centering shall be given after theconcrete is laid)TNBP No.30(S) 86 86 A V, VI (S3) VII	(Rup	748.55 ees Seven hundred and eight and paise fifty five	1M ² (One square metre)	81592
8			Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaiton. (Payment for centering shall be given after the concrete is laid). TNBP No.30(S) 86 86 A V, VI (S3) VII				
а	177.00 S (One hundred seventy seven s metre only)		For plane surfaces such as Rectangular or square columns, sunshades etc.	(Rup	1010.15 ees One thousand and and paise fifteen only)	1M ² (One square metre)	178797
b.	280.00 S (Two hundred eighty square n only)		For plane surfaces such as beams, lintels,protico slabs. Staircase waise slabs,etc.	(Rup	841.80 ees Eight hundred and one and paise eighty	1M ² (One square metre)	235704
9			Providing and laying in position, standardised concrete Mix M20 grade in accordance with IS 456- 2000 using 20mm and down graded hard broken granite stone jelly for all RCC items of work with minimum cement content of 325 Kg/m3 and maximum water cement ratio of 0.45 including admixyure (Plasticiser / super plasticiser) in recommended proportions as per : 9103 to accelerate retard setting of concrete, improve workability without impairing strength and durability with about (5Cum) 7730kg. of 20mm machine crushed stone jelly and with about (3.3cu.m.) 5156kg. of 10-12 mm machine crushed stone jelly with about 4.79Cu.m.)7670kg. of sand, but excluding cost of reinforcement grill and fabricating charges centering and shuttering and also including laying , vabricating with mechical vibrators, finishing curing etc., and providing fixtures like fan clamps in the RCC floor/ roof slab where ever necessary without claiming extra ,etc., complete.complying with standarde specification and as directed by departmental officers.The coarse and fine aggregates to be used should compling with the requirements of IS Standards. (No separate payment will be made by the department for excess usage of materials) .TNBP.No.30				

SI. No	Appro mate Qu		Description of work & T.N.B.P. & N.B.C. No.	Ra	te in Figures and words	Unit for cal culation	Amount
а	49.00 (Forty nine cu metre only)	Cum. Jbic	For Foundation and basement	(Ru hun	7203.10 pees Seven thousand two dred and three and paise only)	1M ³ (One cubic metre)	352952
b	37.00 (Thirty seven metre only)	Cum. cubic	In Ground floor	(Ru thre	7306.40 pees Seven thousand e hundred and six and e forty only)	1M ³ (One cubic metre)	270337
10	93.00 (Ninety three only)	Qtl quintal	Supplying, fabricating and placing in position M.S. or R.T.S. reinforcement grill for RCC works as per the design given including cost of steel and black binding wire etc., complete complying with standard specification. (The contractor will have to make his own arrangements for the supply of M.S. plain rods / RTS rods and black binding wire) TNBP No.86,86-A & 86-B.	(Ruj eigh	7839.80 pees Seven thousand t hundred and thirty nine paise eighty only)	1 Qtl (One Quintal only)	729101
11			Brick work in cement mortar 1:6(One cement and six crushed stone sand) using country bricks of size 8 ³ / ₄ "x 4 ¹ / ₄ " x 2 ³ / ₄ " for the following items including curing etc., complete complying with standard specification. TNBP No.31 & similar to 31C V, VI (S5) VII				
а	25.00 (Forty nine co metre only)	Cum. Jbic	For foundation and basement	(Ru	5292.00 pees Five thousand two dred and ninety two only)	1M ³ (One cubic metre)	132300
b	47.00 (Forty seven metre only)	Cum. cubic	In Ground floor	(Ru	5360.00 pees Five thousand three dred and sixty only)	1M ³ (One cubic metre)	251920
12			Brick work in cement mortar 1:5(One cement and five crushed stone sand) using country bricks of size 8 ³ / ₄ "x 4 ¹ / ₄ " x 2 ³ / ₄ " for the following items including curing etc., complete complying with standard specification. TNBP No.31 & similar to 31C V, VI (S5) VII				
а	17.00 (Seventeen o metre only)	Cum. ubic	For foundation and basement	(Ru hun	5363.55 pees Five thousand three dred and sixty three and e fifty five only)	1M ³ (One cubic metre)	91180

SI. No	Appro mate Qua		Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
	32.00 (Thirty two sc metres only)	Sqm. Juare	Damp proof course with Cement Mortar 1:4 (One Cement and Four M.sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used and finishing, curing etc. complete complying with standard specification.	Rs. 232.20 (Rupees Two hundred and thirty two and paise twenty only)	1M ² (One Square metre)	7430
14			Brick partition walls of 10.80cm thickness using best quality country bricks of size 8-3/4" x 4-1/4" x 2-3/4" in Cement Mortar 1:3 (One Cement and Three crushed stone sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)			
	32.00 (Thirty two sc metres only)	Sqm. Juare	In Ground floor	Rs. 703.60 (Rupees Seven hundred and three and paise sixty only)	1M ² (One Square metre)	22515
15	10.00 (Ten cubic m	Cum etre only)	Weathering course in brick jelly lime concrete using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the deparmental officers.	(Rupees Three thousand	1M ³ (One cubic metre)	33300
	152.92 (One hundred two point nine square metre	e two	Finishing the top of roof with one course of approved first quality Machine Pressed Tiles of size 230mm x 230mm x 20mm thick laid in Cement Mortar 1:3 (one cement and three crushed stone sand) 12mm thick mixed with water proofing compound conforming to Indian standard as approved by the departmental officers at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same mortar mixed with the water proofing compound and red oxide etc. complete complying with standard specification. TNBP No.44 H V, VI (S5A) VII, 3	Rs. 1082.70 (Rupees One thousand and eighty two and paise seventy only)	1M ² (One Square metre)	165566
17	16.00 (Sixteen cubi only)	Cum c meter	Cement Concrete 1:5:10 (One Cement, Five crushed stone sand (M.sand) and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for Flooring including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification. TNBP No.30 V , VI (S5) VII & 13	Rs. 4389.30 (Rupees Four thousand three hundred and eighty nine and paise thirty only)	1M ³ (One cubic metre)	70229
	107.00 (One hundred seven square only)		Paving the floor with best quality Double Charged Vetrified Tiles of size 600 x 600 x 8mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be lohnson /Kajaria / Somany / Nitco / RAK or Equivalent which has to be got approved by Executive Engineer before use on works)	Rs. 1372.05 (Rupees One thousand three hundred and seventy two and paise five only)	1M ² (One Square metre)	146809

SI. No	Appro mate Qua		Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
19	9.00 (Nine square only)		Supplying and paving the floor with Plain non slippery (Antiskid) ceramic tiles of approved quality and brand (colour/shade of the ceramic tile should be got approved by the departmental officers concerned before use on work) of size 305x305x6mm in all floors over a base mortar using cement mortar 1:3 (One cement, and three crushed stone sand) 20mm thick laid in situ true to alignment and pointed with colour cement (white cement mixed with colouring pigment) at the rate of 0.3kg/Sqm to suit the colour and shade of the ceramic tiles used neatly and fixed in position without any air gap in between the ceramic tiles etc., complete complying with standard specification and as directed by the departmental officers.	(Rupees Nine hundred and thirty four and paise ten only)	1M ² (One Square metre)	8407
20	11.00 (Eleven squa only)	re metre	Paving the floor with pre-polished concrete anti-skid step tiles (Required shape and design) of 20mm thick of approved quality and colour laid in Cement Mortar 1:3 (One Cement and Three crushed stone sand) 20mm thick and pointed with white cement mixed with colouring pigment at the rate of 0.40 Kg. / sq.m., curing, etc., complete complying with standard specification and as directed by the departmental officers. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)		1M ² (One Square metre)	14862
21	19.00 (Nineteen squ meter only)	iare	Dadooing the walls from the floor level with Printed Design colour glazed tiles of size 300mmx200mmx 6mm of best and approved quality in cement mortar 1:2 (One cement and two sand) 10 mm thick and pointing with white cement at 0.4kg/M2 neatly in all floors as directed by the departmental Officers. The tiles should be got approved before execution from the Executive Engineer.	Rs. 1295.35 (Rupees One thousand two hundred and ninety five and paise thirty five only)	1M ² (One square metre)	24612
22	37.00 (Thirty seven meter only)		Supplying and fixing fine polished cuddapah slab of size of 20mm-30mm thickness for cup- board arrangements including laying to correct alignment with necessary cement mortar and black powder etc, complete complying with standard specification and as direct.	Rs. 438.55 (Rupees Four hundred and thirty eight and paise fifty five only)	1M ² (One square metre)	16226
23	44.00 (Forty four cu meter only)	ıbic	Manufacturing, supplying and fixing in position plain cement concrete precast pavement slab of size 450mm x 450mm of 50mm thick in Cement Concrete 1:2:4 (One cement, Two sand and Four jelly) using 20mm HBG stone jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM 1:3 (One Cement and Three crushed stone Sand) to full depth of slab etc., complete complying with standard specification and as directed	Rs. 685.60 (Rupees Six hundred and eighty five and paise sixty only)	1M ³ (One cubic metre)	30166

SI. No	Approx mate Qua		Description of work & T.N.B.P. & N.B.C. No.	Rate	e in Figures and words	Unit for cal culation	Amount
24			Manufacturing, supplying and fixing of Steel doors with the following specification M.S angles of a size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x5mm for the shutter frames stiffeners with 32x6mm M.S. flat is provided at required intervals in the shutter frames 18 gauge C.R. sheet is laid as panel in the shutter and welded intact for 1/3 bottom portion of the shutter. M.S. flat 18x5mm is welded over the 32x6mm M.S. flat sand witching the CR sheet in between. Additional stiffener with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter. The balance 2/3 portion at top is provided with grill at an average weight of 20kg/sq.m and 6 Nos hinges for double leaves shutter to be provided 6nos of holdfasts 120mm in length made of angle section spliced at the ends are welded to the outer frame of the door. Tower bolts 2nos. one at top and the other at the bottom arte provided one aldrop is provided at on appropriate place in the door.				
а			Double leaf Door		4170.00	1M ²	13136
	(Three point of square metre of	only)		hund	ees Four thousand one red and seventy only)	(One square metre)	
25		Sqm.			3799.00	1M ²	16526
	(Four point three five square metre only)		Glazing the glass used shall be of 5 mm thickness. The Aluminium Section are to be anodised under electrically controlled condition as per IS 1868/1962 for an anodic film thickness of 15 microns. All the materials should be got approved by got approved by the Executive Engineer before execution of works.		ees Three thousand n hundred and ninety only)	(One Square metre)	
26		Rm.	Supplying ,fabricating and fixing in position of steel frame without bottom frame, of size			1 RM.	12283
	(Thirty one point two zero running metre)		shutter, using 1.25mm thick (18 guage) CRCA cold rolled frame steel plate confirming to ISI specified ensured of right butt joint riveted hold assembly with nylon insert, not be welded with special purpose hard ware. Proclaimed including phopating as per ISI with rust preventive primer ready to assemble condition for easy installation at site including dismantling, making necessary chipping and holes in RCC columns, walls with power drills to the extent required , including providing concrete 1:2:4 inside the box curing etc complete. The cost includes the cost of hold fast , plastic bush, insert receiver, rubber bottom, shock absorber etc complete as directed by the departmental officers in all floors.	ninet	ees Three hundred and y three and paise nty only)	(One running metre)	
27			Supplying and fixing solid core particle board flush shutter of nominal thick of 35 mm with necessary T.W. internal lipping conforming to IS 2302 with both sides alround commercial ply 35mm thick including supplying and fixing cost of wind appliances and furniture fittings such as 1no .200x12mm aluminium tower bolt 2nos. 150x12mm aluminium tower bolts 1no. 250x16mm aluminium aldrops, 3 nos. 200mm 'D' type aluminium door handle and door stopper with bush etc., complete as directed by the departmental officers.				

SI. No	Approxi mate Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
а	10.50 Sqm. (Ten point five zero square metre only)	Single leaf	Rs. 2645.70 (Rupees Two thousand six hundred and forty five and paise seventy only)	1M ² (One square metre)	27780
b	3.15 Sqm. (Three point one five square metre only)	Double leaf	Rs. 2763.15 (Rupees Two thousand seven hundred and sixty three and paise fifteen only)	1M ² (One square metre)	8704
28	1.56 Sqm. (One point five six square metre only)	Supplying , fabricating and fixing in position Aluminium Anodised natural colour mat finish Two track sliding window in all floors with Aluminium sections of outer Frame bottom 62x37mmx1.50mm at 1.218 kg/m,the Side & Top 62x31.50x1.50mm at 0.778 kg/m,Shutter Top 40x18x1.5 at 0.38 kg/m,Bottom 40x18x1.5 at 0.38kg/m, Side Vertical 40x18x1.50mm at 0.493 kg/m, Vertical locking section 40x29x1.5mm at 0.632 kg/m, with necessary accessories such as rubber beadings, special hinges, lock, handle including supplying and fixing 4mm thick plain glass including cost of all materials , labours, power consumption required for fabrication , drilling holes in RCC colunm, slab, masonry walls wherever necessary with power drills to the required extent and make good to the original condition after fixing and also as directed.The aluminium sections are to be anodised with matt finish under electrically controlled in accordance with IS 1868 / 1962 for an average anodic film thickness 15 microns etc., complete.	Rs. 3580.60 (Rupees Three thousand five hundred and eighty and paise sixty only)	1M ² (One Square metre)	5586
	627.00 Kg. (Six hundred and twenty seven kilo grams only)	Supplying and fixing mild steel iron grill for windows ventilators and grill gate MS ladder etc., including one coat of red oxide primer using M.S. angle of size 40x40x6mm and grill using 12 mm square rod and necessary hold fast with M.S. angle of size of 40x40x6mm- 230mm long spliced at end is to be provided appropriate places for fixing the grill etc complete complying with standard specification. The type design for the grills should be got approved by the departmental officers before execution.	Rs. 90.20 (Rupees Ninety and paise twenty only)	1 Kg. (One Kilo gram)	56555

SI. No	Appro mate Qua		Description of work & T.N.B.P. & N.B.C. No.	Rat	e in Figures and words	Unit for cal culation	Amount
30			Manufacturing supplying and fixing in position steel sheeted windows with the following specifications. The outer frames and shutter frames of windows made out of Z section (F7D) of size 33 x 25x 3mm at 1.419 Kg/rm and mullion J section (F4B) of size 46 x 25 x 3mm and conforming to IS 7452/1990. The shutters shall be individual and each of them can be operated separately. Sash bars are made of T section (T2) of size 33x25x3mm 2 Nos. of sturdy hinges and one number of handle cum latch of special type are fixed for each openable shutter. Suitable opening is left for its easy operation. One number of adjustable wind stay with locking bracket of sufficient length are provided for each shutter. 4 Nos. of 40x40x3mm angle hold fasts of size 600mm length are welded to the frames at appropriate point MS square guard bars of 12mm size is welded to the inner face of the window at equal intervals not exceeding 10cm spacing 100x30mm @ 0.988 Kg/m provided for the full width of shutters on either sides. The shutter mm with brass screws for fixing the beading. The shutters are to open all members are painted with one coat of red oxide primer. The rate is inclusive of cost of all materials. labour charges for fixing, one coat of primer, welding charges including the cost of welding electrodes, transportation to the site of work, loading unloading and all other incidental charges etc., complete.				
а	7.80 (Seven point zero square n	-	Two leaves	(Rup eight	3895.70 ees Three thousand hundred and ninety five baise seventy only)	1M ² (One Square metre)	30386
31	only) 11.52 (Eleven point square meter			Rs. (Rup	2150.00 ees Two thousand one lred and fifty only)	1M ² (One square metre)	24768
32	3.78 (Three poin eight square only)			(Rup	3167.00 ees Three thousand one lred and sixty seven only)	1M ² (One square metre)	11971

SI. No	Approxi mate Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
33	square metre only)	Supplying, fabricating and fixing inposition Aluminium anodised natural colour matt finish louvered ventilator of size 900x600mm with outer frame section with 62x38x2mm at 1.174 kg/m and the louvered with moving arrangements made with aluminium channel of size 60x30x4mm @ 1.274 kg/m ALuminium clips 19.05x17.27/ 11.05x0.075mm @ 0.169kg/m with necessary 4mm thick plain glass panel for louvers including cost of all materials, labour and power required for fabrications, chipping dismantling making holes in RCC, masonry and made good to the original condition after fixing etc., complete. The Aluminium surface is to be anodised with matt finish under electrically controlled condition in accordance with ISI specification 1868/1962 for anodic film thickness of notless than 15 Microns, etc., complete.	(Rupees Four thousand nine hundred and ninety seven and	1M ² (One Square metre)	5397
34	707.00 Sqm. (Seven hundred and seven square meters only)	Plastering with Cement Mortar 1:5 (One cement and Five P. sand), 12mm thick in all floors including finishing neatly curing etc. complete complying with standard specification.	Rs. 222.00 (Rupees Two hundred and twenty two only)	1M ² (One square metre)	156954
35	345.00 Sqm. (Three hundred and forty five square metre only)	Special ceiling plastering and finishing the exposed surface of RCC items of work such as slabs, beams, sunshades, facia, canopy slab, staircase waist slab, landing slab etc. with Cement Mortar 1:3 (One Cement and Three P.sand) 10 mm thick including hacking the surfaces and providing Cement Mortar nosing, beading for sunshades, staircases, steps, landing slabs and finishing, curing, etc., in all floors complying with standard specification as directed by the departmental officers. TNBP No. 56 & 57	Rs. 253.30 (Rupees Two hundred and fifty three and paise thirty only)	1M ² (One square metre)	87389
36	92.00 Sqm. (Ninety two square metre)	Plastering wall with Cement Mortar 1:3 (One cement and Three P.sand), 12 mm thick with water proofing compound of approved quality conforming to ISS at 2% by weight of cement used etc., complete complying with standard specification and as directed by the departmental officers.	Rs. 243.70 (Rupees Two hundred and forty three and paise seventy only)	1M ² (One square metre)	22420
37	6.00 Cum. (Six cubic metres only)	Plain cement concrete 1:2:4 (One cement, two sand and four crushed stone stone jelly) using 20mm gauge hard broken granite stone jelly for wearing coat including dewatering wherever necessary and laid in layers of not more than 15cm thick, well rammed consolidated and curing etc., complete complying with standard specifications.	Rs. 5910.65 (Rupees Five thousand nine hundred and ten and paise sixty five only)	1M ³ (One cubic metre)	35464
38	44.00 Sqm. (Forty four square metre only)	White washing three coats with freshly burnt white shell lime in all floors including cost of lime, blue powder, fevicol type gum, brushes, scaffolding charges, etc., complete complying with standard specification and as directed by the departmental officers.	Rs. 39.30 (Rupees Thirty nine and paise thirty only)	1M ² (One square metre)	1729
39	461.00 Sqm. (Four hundred and sixty one square metre only)	Painting two coats of newly plastered wall surface with ready mixed plastic Interior emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	Rs. 211.80 (Rupees Two hundred and eleven and paise eighty only)	1M ² (One Square metre)	97640

SI. No	Appro mate Qua		Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
40	278.00 (Two hundre seventy eight metre only)		Painting two coats of newly plastered wall surface with ready mixed plastic Exterior emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.	Rs. 213.30 (Rupees Two hundred and thirteen and paise thirty only)	1M ² (One Square metre)	59297
41	76.00 (Seventy six s metres only)	Sqm. square	Painting New iron works such as steel doors, windows, ventilators, window bars, balustrades etc. with two coats of best approved first quality and colour of synthetic enamel paint over the existing red-oxide priming coat in all floors excluding cost of priming coat etc. complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)	Rs. 126.20 (Rupees One hundred and twenty six and paise twenty only)	1M ² (One square metre)	9591
42	34.00 (Thirty four s metres only)	Sqm. quare	Painting New wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all floors including the cost of primer etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)	Rs. 212.90 (Rupees Two hundred and twelve and paise ninety only)	1M ² (One square metre)	7239
43			Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes having a pressure of 4 kg. / sq.cm including cost of necessry PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.			
а	13.00 (Thirteen runr metre)	Rm. hing	110 mm dia PVC rain water down wall pipe	Rs. 526.90 (Rupees Five hundred and twenty six and paise ninety only)	1RM (One running metre)	6850
44	11.00 (Eleven squa only)	Sqm. re metre	Supplying and fixing in postion of Aluminium anodised natural colour matt finish Openable Cupboard of size 1.20x2.10 m in all floors fixed with 12 mm thick Prelaminated particle board (Exterior grade). the outer frame of section 38x33x2.12 mm @ 0.706 kg/m, shutter frame of 38.5x33x3 mm @ 0.706 kg/m, Interlocking mullion vertical section of 59x33x2.5 mm @ 1.135 kg/m. The shutter is fixed with 6 nos. Aluminium hinges, 100x30 mmof 2 nos. D Type handle 100 mm long and 2 nos. of Cupboard lock etc. with necessary furniture fittings including cost of, labours, power consumption charges required for fabrication including necessary chipping, dismatling and making necessary holes in the RCC columns beams, masonry etc., with power drill to the required depth and redoing the same to the original condition after fixing etc., complete. complying with standard specification.	Rs. 4098.20 (Rupees Four thousand and ninety eight and paise twenty only)	1M ² (One Square metre)	45080

SI. No	Approxi mate Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
45	6.00 Nos. (Six Numbers only)	Supplying and fixing in position 15mm dia brass CP screw down tap / Pillar tap (heavy duty) of approved make conforming to BIS specifications and quality including cost of shellac, thread, etc., complete complying with standard specification and including cutting and threading wherever necessary. (Taps should be got approved by the Executive Engineer before use on the works)	Rs. 337.60 (Rupees Three hundred and thirty seven and paise sixty only)	1 No (One Number)	2026
46	2.00 Nos. (Two Numbers only)	Supplying and fixing of white glazed European Water Closet of best quality and approved make with 100 mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelin low level flushing tank with a pair of CI brackets, etc., complete with all fittings such as 15mm brass ball valve with polythene float with brass handle, union, coupling connected by means of 40mm white PVC flush hand using Indian adopter joint including all internal fittings. such as 15mm brass connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe including cost of 600mm length of 110mm dia PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition etc. complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Enginer before use on works)(White Glazed European Water closet with 10 litres capacity PVC flusing tank fixed on to wall)	Rs. 5862.00 (Rupees Five thousand eight hundred and sixty two only)	1 No (One Number)	11724
47	2.00 Nos. (Two Numbers only)	Supplying and fixing Indian make wash hand basin of size 550mm X 400mm and approved brand and quality with a pair of C.I. Brackets fixed to wall with necessary teakwood plugs and brass screws one No. of 15mm C.P. Piller tap 32mm brass C.P. Waste coupling, rubber plug and chain, 32mm G. I. Union, 32mmG. I. Waste pipe 15mm dia G. M. Wheel valve 15mm brass nipple and nylon connection including cost of white lead TW Plugs clamps, rubber washer, painting the iron Materials two coats over one coat of primer etc., complete.(The wash hand basin should be got approved from the Executive Engineer before use on works).White glazed wash hand basin (Without Pedestal)	Rs. 3491.40 (Rupees Three thousand four hundred and ninety one and paise forty only)	1 No. (One Number)	6983
48	2.00 Nos. (Two Numbers only)	Supplying and fixing approved best quality brass CP towel rail 600mm long and 20mm dia with brackets of same materials including cost of teak wood plugs and CP screws, etc., complete complying with standard specifications. (The tower rail should be got approved by Executive Engineer before use on works).	Rs. 483.50 (Rupees Four hundred and eighty three and paise fifty only)	1 No. (One Number)	967
49	2.00 Nos. (Two Numbers only)	Supplying and fixing in position Indian make bevelled edge mirror of approved quality and brand PVC / Fibre Glass framed 600 x 450 x 5.5mm thick mirror, shelf type with hard board backing of approved colour fixed with brass screws, rawl plug, etc., complete complying with standard specification. (The mirror should be got approved by the Executive Engineer before use on woks)	Rs. 957.50 (Rupees Nine hundred and fifty seven and paise fifty only)	1 No. (One Number)	1915

SI. No	Appro mate Qua	antity	Description of work & T.N.B.P. & N.B.C. No.		e in Figures and words	Unit for cal culation	Amount
50	1.00 (One Numbe	No. r only)	Supplying and fixing PVC ventilating shaft of 110mm dia (having working pressure 4 kg. / sq.cm) with 3 metre height including cost of PVC cylindrical cowl of best approved quality etc., complete complying with standard specifications and as directed by the departmental officers	(Rup	eight and paise forty five	1 No. (One Number)	1058
	9.00 (NIne cubic n only)	Cum. netre	Collection and Supply of hard broken granite stone of the size 40mm ISS metal for dispersion trench including stacking to the departmental gauge and placing around the stoneware pipes to the required thickness as directed by the departmental officers etc. complete. (The rate including cost of metal filling etc., complete complying with standard specification.	(Rup hund	1192.90 ees One thousand one lred and ninety two and e ninety only)	1M ³ (One cubic metre)	10736
52			Supplying, laying and jointing glazed stone ware pipes of the following dia of approved quality with spigot and socket ends and fixing them in dry condition using spun yarn and cement including petty masonry shoring and strutting wherever found necessary and laying the pipe line in the alignment at the specified gradient and testing with necessary tools and plants, etc., and refilling the trench with excavated earth and levelling the ground etc., complete complying with standard specifications. (Earth work excavation, re-filling with excavated earth will be measured and paid separately).				
а	3.00 (Three runnir	Rm. ng metre)	100mm dia stoneware pipe (cement joint)	(Rup	263.15 ees Two hundred and three and paise fifteen)	1 RM. (One running metre)	789
53	10.00 (Ten running	Rm. metre)	Supplying, laying and jointing glazed stoneware pipes of 100mm dia of approved best quality with spigot and socket ends (in reverse direction) in dry condition and laid in loose joints (i.e.) without cement and spun yarn, so that the waste water can be drained to the trenches already available, excluding cost of earth work excavation, cost of re-filling with sand / earth, but including laying the pipe in true alignment and gradient and conducting required water supply test for draining with necessary tools and plants, etc., complete complying with standard specifications.	(Rup	158.50 ees One hundred and sight and paise fifty only	1 RM. (One running metre)	1585
54	2.00 (Two Numb	Nos. ers only)	Supplying and fixing in position 150mm dia stoneware tee of approved best quality and provding leak proof joints with cement, spun yarn, etc., including dismantling the brick work and re-doing the dismantled portion to the original condition, etc., complete complying with standard specifications (The stoneware tee shall be got approved by the Executive Engineer before use on work)	(Rup	358.85 ees Three hundred and eight and paise eighty five	1 No (One Number)	718

SI. No	Appro mate Qua		Description of work & T.N.B.P. & N.B.C. No.	Rat	e in Figures and words	Unit for cal culation	Amount
55			Supplying and fixing in position best quality PVC soil / waste pipes of various dia having 6 kg / sq.cm. pressure BIS mark and providing leak proof joints using PVC adhesives including fixing to the wall with special PVC / MS clamp, teak wood plugs, brass screws, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications. (The PVC pipes should be got approved by the Executive Engineer before use on works). The rate for earth work excavation will be measured and paid separately in the cases where the pipe lines are proposed to laid below ground level				
а	15.00	Rm.	75mm dia PVC soil pipe	Rs.	447.10	1 RM.	6707
	(Fifteen runni metre)	ing			ees Four hundred and seven and paise ten	(One running metre)	
b		Rm.	110mm dia PVC soil pipe		551.30	1 RM.	5513
	(Ten running	metre)		· ·	ees Five hundred and one and paise thirty only)	(One running metre)	
56			Supplying and fixing in position first quality and approved variety of gun metal Wheel valve heavy type with BIS mark of the following sizes including cost of shellac, thread, including labour charges for cutting and threading of GI pipes as directed by the departmental officers etc., complete complying with standard specification for both internal and external water supply arrangements. The gate valve / wheel valve should be got approved by the departmental officers before use on works.				
а	2.00	Nos.	25 mm dia Gun Metal Wheel valve	Rs	678.15	1 No.	1356
	(Two Numbe	ers only)		seve	ees Six hundred and nty eight and paise n only)	(One Number)	
57	2.00	Nos.	Supplying and fixing position C.I Nahani Trap of the sizes 100mm x 75mm with best	Rs.	745.40	1 No	1491
	(Two Numbe		stainless steel gratings of approved brand and quality, fixed over a bed of brick jelly lime concrete 1:2:5 (One part of lime, two part of sand and five part of 40mm gauge brick jelly) and finished with Cement Mortar 1:3 (One Cement, Three sand) including dismantling masonry works wherever found necessary and making good the dismantled portions to the original condition and giving connection to the CI pipes, etc., complete complying with standard specification. (The Nahani Trap should be got approved by the Executive Engineer before use on works)		ees Seven hundred and five and paise forty only)	(One Number)	

SI. No	Appro mate Qua		Description of work & T.N.B.P. & N.B.C. No.	Rat	e in Figures and words	Unit for cal culation	Amount
58			Supplying, laying and jointing G.I. Pipes of approved quality and best variety of "B" class pipe of the following dia including labour fixing G.I. Specials, (excluding charges for cutting and threading of pipes, cost of such specials) to wall with necessary teak wood plugs, clamps, screws, thread balls, shellac, etc., making holes on the walls (or) drilling holes in roof and making good the dismantled portions to original condition with necessary brick work / concrete and plastering wherever necessry with necessary scaffolding charges. The pipes are to be painted with the 2 coats of good variety and approved best quality of synthetic enamel paint over a priming coat of red oxide etc., complete in all floors complying with standard specification. G.I. pipes shall be got approved by the Executive Engineer before use on works. Below ground level.				
а	20.00	Rm.	25mm dia G.I pipe		382.70	1 Rm.	7654
	(Twenty runn metres only)	ing			ees Three hundred and ty two and paise seventy	(One running metre)	
59			Supplying, laying and jointing G.I. Pipes of approved quality and best variety of "B" class pipe of the following dia including labour fixing G.I. Specials, (excluding charges for cutting and threading of pipes, cost of such specials) to wall with necessary teak wood plugs, clamps, screws, thread balls, shellac, etc., making holes on the walls (or) drilling holes in roof and making good the dismantled portions to original condition with necessary brick work / concrete and plastering wherever necessry with necessary scaffolding charges. The pipes are to be painted with the 2 coats of good variety and approved best quality of synthetic enamel paint over a priming coat of red oxide etc., complete in all floors complying with standard specification. G.I. pipes shall be got approved by the Executive Engineer before use on works. Above ground level.				
а	30.00	Rm.	25mm dia G.I pipe (External)		310.20	1 Rm.	9306
	(Thirty runnin only)	ig metres		· ·	ees Three hundred and and paise twenty only)	(One running metre)	
b	10.00	Rm.	20mm dia G.I pipe (Internal)	Rs.	277.70	1 Rm.	2777
	(Ten running only)	metres		(Rupees Two hundred and seventy seven and paise seventy only)		(One running metre)	
60			Supplying and fixing in position the following GI Specials of heavy type and approved quality and good variety excluding fixing charges but including necessary cutting and threading of GI pipes, jointing the GI specials and painting with two coats with good variety and best quality synthetic enamel paint over a coat of red oxide primer and jointing the specials with pipe line using shellac etc., complete complying with standard specification. (The GI specials should be got approved by the Executive Engineer concerned before use on works.)				

SI. No	Appro mate Qu		Description of work & T.N.B.P. & N.B.C. No.	Rat	e in Figures and words	Unit for cal culation	Amount
а	4.00	Nos.	25mm dia G.I Tee		178.00 ees One hundred and	1 No (One	712
	(Four Numb	ers only)		· ·	nty eight only)	Number)	
b	3.00	Nos.	20mm dia G.I Tee	-	88.55	1 No	266
	(Three Num only)	bers			ees Eighty eight and paise ive only)	(One Number)	
С	4.00	Nos.	25mm dia G.I Elbow		119.10	1 No	476
	(Four Numb	ers only)		· ·	ees One hundred and een and paise ten only)	(One Number)	
d	4.00	Nos.	20mm dia G.I Elbow	Rs.	58.50	1 No	234
	(Four Numb	ers only)		(Rup only)	ees Fifty eight and paise fifty	(One Number)	
е	4.00	Nos.	25 x 20mm dia G.I Reducer	Rs.	75.60	1 No	302
	(Four Numb	• •		sixty	\$,	(One Number)	
f	3.00	Nos.	20 x 15mm dia G.I Reducer		53.20	1 No	160
	(Three Num only)	bers		(Rupees Fifty three and paise twenty only)		(One Number)	
61			Supplying and laying in position of PVC special of the following dia and types of approved quality confirming to ISS and providing leak proof joints including fixing to the walls and giving connection to the PVC soil stacks, dismantling the masonry or RCC works and re- doing the dismantled portion to original condition etc., complete complying with standard specifications. (The PVC specials should be got approved by the Executive Engineer before use on works).				
а	2.00	Nos.	110mm dia PVC plain Tee		446.00	1 No	892
	(Two Numbe	• /		(Rupees Four hundred and forty six only)		(One Number)	
b	2.00	Nos.	75mm dia PVC Plain Tee	Rs. 386.40		1 No	773
	(Two Numbe	rs only)		· ·	ees Three hundred and y six and paise forty only)	(One Number)	

SI. No	Appro mate Qu		Description of work & T.N.B.P. & N.B.C. No.		e in Figures and words	Unit for cal culation	Amount
С	2.00 (Two Numbe	Nos. rs only)	110mm dia PVC plain Elbow	(Rupe	356.40 ees Three hundred and fifty nd paise fortyonly)	1 No (One Number)	713
d	4.00 (Four Numbe	Nos. ers only)	75mm dia PVC plain Elbow	(Rupe	352.90 ees Three hundred and fifty ind paise ninety only)	1 No (One Number)	1412
62	110.00 (One hundre running metr		Drilling of 6" (150mm) dia vertical bores in hard rock areas to any required depth as directed by the departmental officers. The rate is inclusive of assembling the equipment in the point as selected, drilling bore, labour charges for inserting the casing pipe if necessary and also transportation charges of the rig and supporting vehicle to the bore point etc., complete complying with standard specification.	(Rup ninet	ty five only)	1 RM. (One running metre)	32450
63	30.00 (Thirty runnir	Rm. ng metre)	Supplying erecting and inserting 6" dia PVC casing pipe of approved quality and variety without slot to standard length of 6 metre suitable for 6"borewell including jointing the casing pipe in the PVC couplers with solvent materials in the drilled holes to the required depth conforming to pressure as per IS 4985. The rate is inclusive of cost of pipe, taxes, labour charges for cutting, threading, jointing the pipe, conveyance charges of materials and all other labour charges etc., complete complying with standard specifications. The PVC pipe should be got approved by the departmental officers before use on work.	Rs. 481.00 (Rupees Four hundred and eighty one only)		1 RM. (One running metre)	14430
64			Supplying laying and jointing HDPE pipes class - V-1MP a with working pressure of 10 kg./cm2 of approved quality and best quality conforming to ISS and with ISI mark of following sizes including cutting threading and fixing G.I specials but including cost of such specials and fixing into Bore well for suction line, air pipe etc., complete complying with standard specification.				
а	110.00 (One hundre running metr		25mm dia HDPE PVC pipe	(Rup	61.70 bees Sixty one and paise enty only)	1 RM. (One running metre)	6787
b	110.00 (One hundre running metr		20mm dia HDPE PVC pipe		34.00 sees Thirty four only)	1 RM. (One running metre)	3740

SI. No	Appro mate Qu		Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
65	1.00 (One Numbe	No. r only	Supplying and fixing of suitable PVC End cap for 6" dia bore, of best quality with ISI mark etc., complete complying with standard specifications. PVC End cap should be got approved by the departmental officers before use on work.	Rs. 137.50 (Rupees One hundred and thirty seven and paise fifty only)	1 No. (One Number)	138
66	1.00 (One Numbe	No. r only	Supplying and erection of 2.00 HP power compressor pump 5200 Rpm with suitable motor 1440 Rpm of best approved quality and make with ISI mark including cost of all accessories like base plate, belt, pulley, oil level indicator, belt guard, for the air pipe of size 15mm and delivery pipe size 32mm dia including fixing of suction pipe upto a maximum depth of 100m and delivery pipe upto the exterior wall of the pump room etc., complete and testing the pumps on trial run for 3 days. (All the above materials are to be got approved from the Executive Engineer before use on works.)	Rs. 21000.00 (RupeesTwenty one thousands only)	1 No. (One Number)	21000
67	1.00 (One Numb	No. er only)	Supplying and fixing in position of P.V.C water storage tank of best approved quality and brand of super thick with lid of capacity 1000 Litres with accessories including giving necessory connections etc., complete as directed by the departmental officers. (The P.V.C. water storage tank should be got approved by the Executive Engineer before use on works.)	Rs 9600.00 (Rupees Nine thousand and six hundred only)	1 No (One Number)	9600
	155.71 (One hundre fifty five point one square n only)	seven	Pre-Construction anti-termite treatment plinth area – surface treatment stage-1 :- Completion of earth work for column footings before laying plain cement concrete 25mm dia Hole spaced at 30 cm center to center on both direction will be made at the bottom of earth workand the chemical will be poured in the holes and will be sprayed in the four sides of earth work at the rate of 3 litres of chemical solution (Chlorophyrifos emulsion diluted in ration 1:19 (One emulsion and 19 water) per square metre payment shall be made after completion of 3 stages. stage-II :- After filling the basement before laying flooring concrete with filling sand 25mm dia holes to adepth of 450 mm will be made inside the basement and the chemical will be poured in the holes at the rate of 3 litres of chemical solution (Chlorophyrifos emulsion diluted in ration 1:19 (One emulsion and 19 water) per square metre payment shall be made after completion of 3 stages. Peripheral treatment stage-III.On completion of building and leveling the outer area adjacent to the walls column ground ponds of size (900X300 mm will be filled in the ponds at the rate of 3 litre of chemical solution per Rm payment shall be made after completion of 3 stages. Stage-IV.Spraying termite solution around the building (Out side of the building) by making crowbar holes around the building before laying the plinth protection. This holes has to be closed after the treatment	Rs 120.00 (Rupees One hundred and twenty only)	1 No (One Number)	18685

SI. No	Appr mate Qu		Description of work & T.N.B.P. & N.B.C. No.	Rat	te in Figures and words	Unit for cal culation	Amount
69	2.00 (Two Numb	Nos. pers only)	Supplying and fixing in position best quality cuddapah sink of following sizes including cost of 32mm dia CP waste coupling, 32mm dia PVC waste pipe with rubber plug and chain, 15mm dia brass nipple including fixing the sink in position and testing for leakages etc., complete complying with standard specifications excluding CI brackets. [The sink and specials should be got approved by the Executive Engineer before use on works]	(Rup hund	2146.10 bees Two thousand one dred and forty six and e ten only)	1 No (One Number)	4292
70	30.40 (Thirty point square metr		Paving the floor with flooring stone SS size (Not less than 10cm thick) laid and pointing the joints to full depth of slabs with cement mortar 1:4 (One cement four crushed stone sand) and the top surface rendered smooth and uniformly curing etc. The cut stone slab and other materials to be used shall be got approved by the Executive Engineer concerned before use on work etc., complete complying with standard specification.	Rs. 1065.80 (Rupees One thousand and sixty five and paise eighty only)		1M ² (One square metre)	32400
			Basic value for work				3949079
			GST @ 12%				473890
			Value put to tender including GST.				4422969
			(Rupees Forty four Lakhs twenty two thousand nine hundred and sixty eight only)				
			(Seventy items only)				

Executive Engineer,PWD Buildings (C&M) Division, Thoothukudi .