P.W.D. SCHEDULE-'A' Thoothukudi

Name of work: Construction of class rooms at Sri Ramakrishna Chidambareshwarar Higher secondary school at Udankudi in Thoothukudi 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	metre only)	Earth work excavation for foundation in hard stiff clay, stiff black cotton, hard earth, shale, murum, gravel stony earth and earth mixed with small size boulders and hard gravelly soil and to full depth as may be directed except in rock requiring blasting but including shoring, strutting and baling out water sherever necessary and refilling the sides of foundation with excavated earth in layers of not more than 15cm thick, well rammed and consolidated and depositing the surplus earth within the compound in places as shown by the departmental officers with an initial lead of 10m and an initial lift of 2m clearing, levelling the site etc. complete complying with standard specification. TNBP No.23 & 24	Rs. 172.30 (Rupees One hundred and seventy two and paise thirty only)	1M ³ (One cubic metre)	34460
2	11.60 Cum (Eleven point six zero 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)	55869
3	(Thirty eight point	Refilling the basement 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)	1302
4		Supplying and filling in basement with excavated and conveyed earth with a lead of 3 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. 163.60 (Rupees One hundred and sixty three and paise sixty only)	1M ³ (One cubic metre)	7444
5	19.50 Cum (Nineteen point five zero 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. 561.75 (Rupees Five hundred and sixty one and paise seventy five only)	1M ³ (One cubic metre)	10954

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
6	(Eighteen square metres only)	mixed with best approved quality water proofing compound conforming to Indian Standard	Rs. 232.05 (Rupees Two hundred and thirty two and paise five only)	1M ² (One Square metre)	4177
7	106.50 Sqm. (One hundred and six point five zero square metre only)	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	Rs. 748.55 (Rupees Seven hundred and forty eight and paise fifty five only)	1M ² (One square metre)	79721
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	231.00 Sqm. (Two hundred and thirty one square metre only)	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks landing slab, waist slab,protico slabs and beams etc.	Rs. 841.80 (Rupees Eight hundred and forty one and paise eighty only)	1M ² (One square metre)	194456
b.	175.00 Sqm. (One hundred and seventy five square metre only)		Rs. 1010.15 (Rupees One thousand and ten and paise fifteen only)	1M ² (One square metre)	176776

SI. No		proxi Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rat	e in Figures and words	Unit for cal culation	Amount
9			Providing and laying in position, standardised concrete Mix M30 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 400 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. og 0mm 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				
а	41.50	Cum.	For Foundation and basement	Rs.	8161.85	1M ³	338717
	(Forty one zero cubic	point five metre only)		hund	bees Eight thousand one led and sixty one and e eighty five only)	(One cubic metre)	
b	36.75	Cum.	In Ground floor	Rs.	8265.15	1M ³	303744
	(Thirty six µ five cubic r	point seven metre only)		hund	bees Eight thousand two led and sixty five and e fifteen only)	(One cubic metre)	
10	73.70	Qtl		Rs.	7839.80	1 Qtl	577793
	(Seventy th seven zero only)			(Rupees Seven thousand eight hundred and thirty nine and paise eighty only)		(One Quintal only)	
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				

SI. No		oroxi Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate	e in Figures and words	Unit for cal culation	Amount
а	20.00 (Twenty cu only)	Cum. bic metre		(Rup hund	5405.45 ees Five thousand four red and five and paise five only)	1M ³ (One cubic metre)	108109
b		Cum. e point eight : metre		(Rup hund	5473.45 ees Five thousand four red and seventy three paise forty five only)	1M ³ (One cubic metre)	217843
12			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)				
a	5.00 (Five squatonly)	Sqm. re metre	In Ground floor	(Rup	715.85 ees Seven hundred and n and paise eighty five	1M ² (One Square metre)	3579
13	(Twelve po	Cum vint nine meter only)	hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for Flooring	(Rup eigh	4816.30 pees Four thousand t hundred and sixteen paise thirty only)	1M ³ (One cubic metre)	62130
14	132.50 (One hund thirty two p zero squar only)	oint five	edges at the proportion of 9:1 laid over cement mortar 1:3 (One cement three crushed	(Rup hund	1212.60 ees One thousand two red and twelve and e sixty only)	1M ² (One Square metre)	160670

SI. No	-	proxi Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and word		Unit for cal culation	Amount
15	7.60 (Seven po square me		Paving the floor with cement based hydraulically pressed anti-skid flooring tiles in all floors with pattern design of approved quality and colour set in cement mortar 1:3 (one cement and three crushed stone sand) 20mm thick and pointing with white cement mixed with colouring pigments to full depth of tiles at a rate of 0.40kg/m2 perfectly and neat finishing the joints and curing. The rate shall be inclusive of cost of tiles, taxes, incidental charges, transportation charges and labour charges for fixing the tiles, neat finishing the joints, curing, as directed by the departmental officers etc., complete complying with standard specification. The tiles should be got approved by the departmental officers before use on work.	(Rup hunc	ees One thousand two	1M ² (One Square metre)	9332
16	(Eleven po	Cum bint seven metre 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.	(Rup hunc	3596.50 bees Three thousand five dred and ninety six and e fifty only)	1M ³ (One cubic metre)	42259
17	149.30 (One hund forty nine p zero squar only)	point three	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. 1084.25 (Rupees One thousand and eighty four and paise twenty five only)		1M ² (One Square metre)	161879
18			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	12.00 (Twelve ru metre)	Rm. unning		(Rup	526.90 bees Five hundred and ty six and paise ninety	1RM (One running metre)	6323

SI. No		proxi Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words		Unit for cal culation	Amount
19	6.50 (Six point f square me		Supplying and fixing fine polished cuddapah slab of size of 20mm-30mm thickness for shelves, cup-board arrangements including laying to correct alignment with necessary cement mortar and black oxide etc, complete complying with standard specification and as direct.	(Rup	438.55 bees Four hundred and reight and paise fifty five	1M ² (One square metre)	2851
	212.00 (Two hun twelve squ 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	(Rup	253.20 bees Two hundred and three and paise twenty	1M ² (One Square metre)	53678
21		Sqm. ed and one eters 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.	(Rup	bees Two hundred and ty one and paise ninety	1M ² (One square metre)	133362
22			Manufacturing supplying and fixing of steel door with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwitching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place. Incase of double leaf door M.S.Flat 32 x 3mm at 1.1Kg/m is provided on the one shutter t conceal the gap between the two shutters.at an appropriate place in the door. A tie bar is provided at the bottom of the frame to prevent twisting of frame during transportation and fixing. All members are given a coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation to site of work, loading, un loading and all other incidental charges etc., complete.				
а	7.56 (Seven poi square me		Double leaf	(Rup	4089.40 bees Four thousand and ty nine and paise forty)	1M ² (One square metre)	30916

SI. No		proxi Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate in Figures and words	Unit for cal culation	Amount
23			Fabricating, Supplying and fixng in position of steel sheeted windows with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly.2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18x5mm MS flats are revetted to the shutters at an appropriate height in window. suitable opening is left for its easy operation. a stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. each window shutter having an adustable stay made out of 18 x 5mm at 0.70 kg/m MS flat of lenght			
а	14.04	Sqm.	Four leaves	Rs. 4101.60	1M ²	57586
		point zero		(Rupees Four thousand one	(One	
	four square	e metre		hundred and one and paise	square	
	only)			sixty only)	metre)	
b	5.85	Sqm.	Three leaves	Rs. 4014.50	1M ²	23485
	(Five point			(Rupees Four thousand and	(One	
	square me	etre only)		fourteen and paise fifty only)	square	
					metre)	
24	448.00	Sqm.	White washing three coats with freshly burnt white shell lime in all floors including cost	Rs. 39.30	1M ²	17606
	(Four hund	dred and	of lime, blue powder, fevicol type gum, brushes, scaffolding charges, etc., complete	(Rupees Thirty nine and	(One	
	forty eight	-	complying with standard specification and as directed by the departmental officers.	paise thirty only)	square	
	metre only	()			metre)	

SI. No		proxi Quantity	Description of work & T.N.B.P. & N.B.C. No.	Rate	e in Figures and words	Unit for cal culation	Amount
25	208.00 (Two hundi eight squar only)	e metre	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.(The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)	(Ruc	ees Two hundred and	1M ² (One square metre)	44366
26		t three nine tres onlv)	enamel paint over the existing red-oxide priming coat in all floors excluding cost of	(Rup	126.20 bees One hundred and ity six and paise twenty	1M ² (One square metre)	7621
27	10.55 (Ten point square met	five five	Providing black board in two layers with first layer in C.M. 1:5(One cement and five crushed stone sand) 20mm thick and second layer in combination mortor 1:1:6 (One cement one lime and six crushed stone sand) 20mm thick and 50mm width including cost of one coat black oxide paint of approved quality etc., complete complying with standarded specification and as directed by departmental officers.	(Rup	901.70 bees Nine hundred and and paise seventy only)	1M ² (One Square metre)	9513
			Basic value for work				2938521
			GST @ 12%				352623
			Value put to tender including GST.				3291144
			(Rupees Thirty two Lakhs ninety one thousand one hundred and forty four only)				
			(Twenty seven items only)				

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