

SCHEDULE-A

NAME OF WORK : Construction of Additional Two Classroom Building in Government Boys Higher Secondary School at Velliyanai in Karur District.

Sl.	Approx.	Description of work	TNBP	Rate in figure	Unit	Amount
No.	Qty.		No.	and in words		
1	156.00m3(One Hundred Fifty Six Cubic meter only)	Earth work excavation for foundation (for narrow 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 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.	23 & 24 V, VI S2		1 m3 (One Qubic metre only)	
2	18.50m3(Eighteen point Five Zero Cubic meter only)	Refilling with excavated earth other than Crushed stone sand with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification	24&25 NBC Part VI[S2]8		1 m3 (One Qubic metre only)	
3	33.50m3(Thirty Three point Five Zero Cubic meter only)	Supplying and filling in foundation and basement, etc with filling Crushed stone sand (M-SAND) 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.	24&25 NBC Part VI[S2]8		1 m3 (One Qubic metre only)	
4	32.60m3(Thirty Two point Six Zero Cubic meter only)	Supplying and filling Gravel in foundation and basement in layers of not more than 15cm.thick well rammed watered and compacted etc., complete complying with standard specification.	24&25 NBC Part VI[S2]8		1 m3 (One Qubic metre only)	

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Executive Engineer,P.W.D.,
Buildings (C)Division,Karur.

5	0.45m3(Zero point Four Five Cubic meter only)	Supplying and filling 40mm guauge HBGS stone jelly for dispersion trench including loading conveying and unloading and as directed by the departmental officers etc. complete complying with standard specification.	Special		1 m3 (One Qubic metre only)	
6	0.45m3(Zero point Four Five Cubic meter only)	Supplying and filling 20mm guauge HBGS stone jelly for dispersion trench including loading conveying and unloading and as directed by the departmental officers etc. complete complying with standard specification.	Special		1 m3 (One Qubic metre only)	
7	11.20m3(Eleven point Two Zero Cubic meter 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	28 V, VI S2 [SS.A] VII		1 m3 (One Qubic metre only)	
8	14.60m3(Forteen point Six Zero Cubic meter only)	Cement Concrete 1:5:10 (One cement, Five Crushed stone sand (M-SAND) and Ten hard broken stone) using 40 mm gauge hard broken jelly for flooring including laying, consolidating, finishing, rendering the top surface rough to receive the floor, curing, etc. complete complying with standard specification. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers	28 V, VI S2 [SS.A] VII		1 m3 (One Qubic metre only)	
9	14.20m3(Forteen point Two Zero Cubic meter only)	Plain Cement Concrete 1:2:4 (one cement, two Crushed stone sand (M-SAND) and four hard broken stone jelly) using 10-12mm jelly for roof fininshing including laying, compacting, finishing and curing, etc., complete as per standard specificatins and as directed by the departmental officers.	30 V, VI [S5] VII & 13		1 m3 (One Qubic metre only)	

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10	24.00m ² (Twenty Four point Zero zero Square meter only)	Damp proof course with Cement Mortar 1:4 (One Cement and Four 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, finishing and curing etc. complete complying with standard specification.	S38 [S6] & V, VI		1 m ² (One Square meter only)	
11	88.00m ² (Eighty Eight point Zero Zero Square meter only)	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)			1 m ² (One Square meter only)	
12		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 about 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 specification. (Payment for centering shall be given after the concrete is laid)				
a	213.00m ² (Two Hundred Thirteen point Zero Zero Square meter only)	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.	30[S] 86 86 A V, VI [S3] VII		1 m ² (One Square meter only)	

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b	137.00m2(One Hundred Thirty Seven point Zero zero Square meter only)	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.	30[S] 86 86 A V, VI [S3] VII		1 m2(One Square meter only)	
13		Providing and laying in position, standardised concrete Mix M-20 Grade in accordance with IS 456 using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 kg/m3 and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m) 7670 kg. of Crushed stone sand (M-SAND), but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor/ roof slabs wherever necessary without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS standards. (No separate payment will be made by the Department for the excess usage of materials).				
a	27.00m3(Twenty Seven point Zero Zero Cubic meter only)	Foundation and Basement	30 V,VI [S3] VII.3		1 m3 (One Qubic metre only)	
b	34.00m3(Thirty Four point Zero Zero Cubic meter only)	For Ground floor	30 V,VI [S3] VII.3		1 m3 (One Qubic metre only)	

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14	79.15Qlt(Seven Nine point One Five Quintal only)	Supplying, fabricating and placing in position Mild Steel / Ribbed Tor Steel grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)	97 V, VI[S6] VII[S6] VII.3		1 Qtl(One Quintal only)	
15		Brick work In Cement Mortar 1:5(one cement and five Crushed stone sand (M-SAND)) Cement Mortar using best quality Fly ash bricks of size 23x11x7cm for the following including curing etc.,complete complying with standard specification.				
a	17.50m3(Seventeen point Five Zero Cubic meter only)	For foundation and basement	31 & similar to 31C V, VI [S5] VII		1 m3(One Cubic meter only)	
16		Brick work In Cement Mortar 1:6(one cement and six Crushed stone sand (M-SAND)) Cement Mortar using best quality Fly ash bricks of size 23x11x7cm for the following including curing etc.,complete complying with standard specification.				
a	19.20m3(Nineteen point Two Zero Cubic meter only)	For foundation and basement	31 & similar to 31C V, VI [S5] VII		1 m3(One Cubic meter only)	
b	35.60m3(Thirty Five point Six Zero Cubic meter only)	In ground floor	31 & similar to 31C V, VI [S5] VII		1 m3(One Cubic meter only)	

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17		Brick partition walls of 11.50cm thickness using best quality Fly Ash Bricks of size 23 x 11 x 7 cm in Cement Mortar 1:3 (One Cement and Three Crushed stone sand (M-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	12.25m2(Twelve point Two Five Square meter only)	Ground Floor	31 of TNBP. V,VI[S3] VII		1 m2 (One Squire metre only)	
18	130.00m2(One Hundred Thiry point Zero Zero Square meter only)	Paving the floor with best quality Scratch proof vitrified Tiles of size 600 x 600 x 10mm 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 got approved by Executive Engineer before use on works)	Special		1 m2 (One Squire metre only)	
19	5.00Rm(Five point Zero Zero Running meter only)	Supplying and Fixing MS Ladder width 45cm using 50x50x6mm MS Angle.	30 V, VI [S5] VII & 13		1 Rm (One Running meter only)	

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20	16.50m2(Sixteen point Five zero Square meter only)	Paving the floor with pre-polished concrete anti-skid 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 (M-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)	41B Generally.		1 m2 (One Squire metre only)	
21	7.30m2(Seven point Three Zero Square meter only)	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 (M-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)	41B Generally.		1 m2 (One Squire metre only)	
22	165.50m2(One Hundred Sixty Five point Five Zero Square meter only)	Paving the Top of roof with Solar refelective ceramic tiles of size 305 x 305 x 7mm thick of approved quality and colour laid in Cement mortar 1:3 (One cement and three sand) 12mm thick and pointed with tile grout (Nitotile Grout or equivalent) and cement in the ratio of 1:3 for joint, 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 the Executive Engineer before use on works)	41B Generally.		1 m2 (One Squire metre only)	

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23		Supplying and fixing fine polished cuddapah slab of following 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.				
a	4.40m2(Four point Four Zero Square meter only)	20 / 30mm thick	8 Vol.I 6		1 m2 (One Squire metre only)	
24	9.36m2(Nine point Three Six Square meter only)	Providing Blockboard in two layers with first layer in cement mortar 1:5 (one cement and five sand)20mm thick and the second layer in Combination mortar 1:1:6(one cement one lime and six sand) 20mm thick and providing band all round the block board in c.m 1:5 (one cement and five sand) for 20mm thick and 50mm width including cost of one coat of block oxide paint of approved quality complying with standard specification.			1 m2(One Square meter only)	
25		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 necessary 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.				
a	23.20Rm(Twenty Three point Two Zero Running meter only)	110mm dia PVC Pipe	Special		1 Rm (One Running meter only)	

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26	3.20m2(Three point Two Zero Square meter only)	Supplying and fixing in position steel balustrades using 20mm square rods spaced at 150mm centre to centre so that the two balustrades in each step shall be placed centrally and the top of balustrades connected with the hand rails (cost of hand rail shall be measured and paid separately) by means of MS flats of size 40mm x 6mm in the groove 40mm x 6mm provided at the bottom of hand rail; the bottom of balustrades shall be fixed on to the top of step concrete. An additional MS flat of size 50mm x 6mm shall be provided at the centre of balustrades connecting all square rods to the entire length including cost of square rods, flat and applying one coat of red oxide primer to the iron surfaces, etc., complete complying with standard specification and as directed by the departmental officers.	Special		1 m2(One Square meter only)	
27	3.90Rm(Three point Nine Zero Running meter only)	Supplying and fixing 40mm dia GI pipe for staircase hand rail including labour charges for cutting, welding and fixing with MS flats (excluding cost of flat), etc., as directed by the departmental officers	Special		1 Rm (One Running meter only)	
28	11.00Rm(Eleven point Zero Zero Running meter only)	Supplying and fixing GI pipe handrails for handicapped persons using 50mm dia GI pipe double handrail at a height of 800mm and 900mm from floor level with 25mm thick MS square rods as balusters embedded in the concrete and welded with pipe at 60cm centre to centre as shown in CA Job No. 9123 / 1 including cutting, welding, bending and fixing charges and applying one coat of red oxide primer for MS members as directed by the departmental officers	Special		1 Rm (One Running meter only)	
29	599.00m2(Five Hundred Ninty Nine point Zero Zero Square meter only)	Plastering with Cement Mortar 1:5 (One cement and Five Crushed stone sand (M-SAND)), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	61 V, VI [S4] 3		1 m2(One Square meter only)	

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30	210.00m2(Two Hundred Ten point Zero Zero Square meter only)	Special ceiling plastering and finishing the exposed surface of all 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 Crushed stone sand (M-SAND)) 10mm thick including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers	56 & 57		1 m2(One Square meter only)	
31	312.00m2(Three Hundred Twelve point Zero Zero Square meter only)	Painting the wall two coats with approved weather proof Exterior Emulsion paint over one primer coat of over cement plastered wall surface ect., complete complying with standard specification.	69 V, VII.3		1m2(One Square meter only)	
32	362.00m2(Three Hundred Sixty Two point Zero Zero Square meter only)	Painting two coats of plastered wall surface with ready mixed plastic 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.	66-B		1m2(One Square meter only)	
33	69.00m2(Sixty Nine point Zero Zero Square meter only)	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.)	61 V, VI [S4] 3		1m2(One Square meter only)	

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34		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 35x35x5mm 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 Crushed stone sand (M-SAND)witching 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.				
b	5.04m2(Five point Zero Four Square meter only)	Double Leaf	81 XII (SS)15		1m2(One Square meter only)	

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35	5.04m2(Five point Zero Four Square meter only)	Fabricating, supplying and fixing of steel Emergency exitdoor cum, emergency window with the following specification. M.S. angle in size 40x40x6mm are used for the outer frames and M.S. angle of size 35x35x5mm for the shutter frame, stiffeners with 32x6mm M.S. flats provided at required intervals in the shutter frames 18 guage CR sheet is laid as panel and welded instant for 1/3 bottom portion of the shutter, M.S. flat 18x5mm is welded over the 32x6mm M.S flat sandwitching the CR sheet in between additional stiffner 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 15kg/m2 and the top portion of operation emergency window is to be made of 25x25x3mm for emergency window and 2 Nos of handle for door is to be provided at appropriate places. A tie bar is provided at the bottom of the outer frame to prevent twisting of frame during transportation of fixing. All members are given one coat of red oxide primer as directed by the departmental officers. The rate includes cost of materials, labour transportation to side of works, loading, unloading and all other incidental charges etc., complete.	Special		1m2(One Square meter only)	
36	9.36m2(Nine point Three Six Square meter only)	Fabricating, Supplying and fixng in position of steel windows (Four Leaves) 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.	Special		1m2(One Square meter only)	
	Total Number of Items in the Schedule:36 (Thirty Six Items only)				Total	
	12 % GST (CGST 6% + SGST 6%)					
	Total Value (Including G.S.T)					

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

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