

PUDUKKOTTAI MUNICIPALITY
SCHEDULE - A

NAME OF WORK: Improvement of Periyar nagar park in TS no. 117, Ward no.24 in Pudukkottai Municipality

EMD : Rs.			Contract value: Rs.					
S. No	Probable Quantity		Description of items	TNBPC Specification No.	RATE IN Rupees		UNIT	Amount in Rupees
					in Figure	in WORDS		
Sl.No	Quantity		Description of work	Rate	per	Amount		
			COMPOUND WALL/FOOT PATH WITH KERB WALL /TOILET/SECURITY ROOM/SUMP					
1			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.					
a)	212.00	m3	Foundation				1m3 (One Cubic meter)	
b)	64.00	m3	Plinth beam				1m3 (One Cubic meter)	
2	140.00	m3	Supplying and filling in foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted etc., complete complying with standard specification.				1m3 (One Cubic meter)	
3	45.00	m3	Plain Cement Concrete 1:4:8 (one cement four fine aggregates and eight coarse aggregates) using 40mm size ISS HBG metal including cost and conveyance of all materials to site and including for the mixing, laying and labour charges and all incidental charges such as water providing etc., complete as per standard				1m3 (One Cubic meter)	

4	0.00	0.00	Centering for soffits of RCC slabs of plane surface like lintels, beams ,etc.,including strutting 3m high using mild steel sheets of size 90cm X 60cm X and B.G 10 stiffened with M.S angles of size 25mm X 25mm X 3mm laid over silver Oak (C.W) joists of size 10cm X 6.5cm (spaced at about 90cm c/c)and supported dy casurina props of 10cm to 13cm dia (spaced of 75cm C/C) complying with standard specification and directed - (P & D)Data 38					
a)	233.00	m2	Column				1m2 (One Square meter)	
b)	890.00	m2	Grade beam				1m2 (One Square meter)	
c)	35.00	m2	Slab and beam				1m2 (One Square meter)	
5			Providing and laying Standardised Concrete Mix M-20 Grade in accordance with IS 456-2000, using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minium 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					
a)	70.00	m3	Up to Basement				1m3 (One Cubic meter)	
b)	16.00	m3	Above Basement				1m3 (One Cubic meter)	
6	7741.00	Kg	Suppling and fabricating and placing in position MS (or) R.T.S. bar for reinforcement to all RCC works as per the design given including cost of steel and binding wire also in all floors. including charges for cutting, Straightening, and bending, typing, Welding, Jointing, over laping and all labour charges etc.				1 Kg (One kilo gram)	
8	78.00	m3	Plain Cement Concrete 1:3:6 (One cement, three sand and six coarse aggregate) using 20mm Indian Standard Size Hard Blue Granite metal from approved quarry including cost and conveyance of all materials and labour charges etc. complete as per Standard specification				1m3 (One Cubic meter)	
9			Brick work in following Cement Mortar 1:5 (one cement and five sand) using best quality bricks of size 8"3/4 x 4 1/4" X23/4" for foundation and basement including curing etc.,complete complying with standard specification.					
a)	12.00	m3	Up to Basement				1m3 (One Cubic meter)	

b)	43.00	m3	Above Basement				1m3 (One Cubic meter)	
10	587.00	m2	Plastering with CM 1:5, 12mm (one cement and five sand) thick including cost and conveyance of all materials to site and labour charges etc. complete as per standard specifications				1m2 (One Square meter)	
11	379.00	m2	Plastering with CM 1:3, 10mm (one cement and sand) thick including cost and conveyance of all materials to site and labour charges etc. complete as per standard specifications				1m2 (One Square meter)	
12	10.00	m2	Dadoing walls with Glazed tiles of sizes 305mm X200mm X 6mm size of approved make and quality and colour I Set in cement mortar 1:2 (one cement ,two sand) over 10 mm base layer plastering and pointing with white cement neatly as directed etc., complete.as per standard specification.				1m2 (One Square meter)	
13	52.00	m2	Flooring with following ceramic tiles of size 305 x 305 x 6 mm laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification.				1m2 (One Square meter)	
14			Supply and Delivery Fabrication of MS doors and windows with outer frame and shutter frame in MS angle of size 40mm x 40mm x 6 mm with MS flat 25mm x 25mm x 6mm and MS sheet of 18 gauge including ventilating arrangements using 20mm square MS rods with locking arrangements including two coats of approved enamel paint over coat of red oxide including cost of angles, plates, sheets, fabrication charges, cost of hold fast and transportation charges etc., complete. (TWAD Category no.20)				1m2 (One Square meter)	
0	4.00	No	Fully panelled Single leaf (Size: 0.75m x 2.10)				1No (One number)	

15	2.00	Nos	Supplying and fixing in position Indian Water Closet (Oriya type) of size 580 x 440mm white glazed earthen ware of approved quality and brand with "P" or "S" trap conforming to BIS with sand cushion and forming flooring around the closet using 40mm broken brick jelly in lime concrete 1:2:5 (One lime, Two sand and Five brick jelly) 100mm thick and finishing the top to the required slope and including giving necessary connection to CI soil pipes (including the cost of 100mm dia CI pipe for a length of 600mm) by dismantling brick masonry wall / reinforced cement concrete roof / floor slab and making good the dismantled portion to the original condition with leakages etc., complete complying with standard specifications and as directed by the departmental officers. (The water closet should be got approved by the Executive Engineer before use on works).complete.				1No (One number)	
16	1.00	No	Supplying and fixing in position white / colour 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 porcelain 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.....				1No (One number)	

17	0.40	m2	Manufacturing, supplying and fixing in position of RCC Jally of 5cm thick in cement concrete 1:2:4 (one cement, two sand and four coarse aggregate using 20mm machine crushed stone jelly (excluding cost of reinforcement steel) including cost of mould, finishing, curing, lifting, fixing in position etc., complete complying with standard specification and as directed				1m2 (One Square meter)	
18	1.50	m2	UPVC Window: Supplying and fixing UPVC (Un-Plasticized Polyvinyl Chloride) Windows of casement type (open) from the profile the size of outer frame 60mm x 58mm and shutter profile are reinforcement with GI/1mm 125GSM and 100% corrosion free, the profiles are multi chambered sections with wall thick of 2mm. The EPDM rubber (black colour) covered with over all the edges of frame and shutter the shutter will be provided with Espag multi power point locks and also it operates as handle. The corners and joints should be welded and cleaned. Radiations free pin				1m2 (One Square meter)	
19	1.00	m3	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 departmental officers.				1m3 (One Cubic meter)	
20	11.00	m2	Finishing the top of roof with one course of machine pressed tiles of size 230mm x 230mm x 20mm of approved quality set in Cement Mortar 1:3 (One Cement and Three Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers				1m2 (One Square meter)	

21	927.00	m2	Painting 2 coats with approved cement paint over cement plastered wall surface, ceiling and other new surface and including cleaning, preparing the surface and curing etc., complete.				1m2 (One Square meter)	
22	8380.00	kg	Supply and fixing of M.S Grills with Doors and Windows with one coat of Red oxide with Primer including all costs such as welding,grinding and fabrication charges, cost and conveyance of all materials to site etc,complete as per standard specification.				1 Kg (One kilo gram)	
23	347.00	m2	Painting two coats with Ready Mixed Enamel Paint over the new iron works of approved quality and colour without priming coat including the cost all materials etc.,complete, in all floors.				1m2 (One Square meter)	

24	5.00	Nos	Wiring with 2 x 1.5 sqmm (22 /0.3) PVC insulated single core unsheathed copper conductor cable of 1100V grade in suitable PVC rigid pipe concealed in wall and ceiling with PVC accessories inflush with wall with 150 x 100 x 113 mm TW switch box with 3mm hylum sheet cover for Light point non inter locking CS plug with continuous earth wire connection of 14 SWG TC wire and making good of the concealed portion with suitable colour for concealed PVC light point.etc, complete as per standard specifications (Ref.SD-18 EDD 2021-22)				1No (One number)	
25	8.00	Nos	Supplying and fixing of single box type 4' 40W flu. Fitting complete with copper choke and condenser with TW round blocks on wall or ceiling with flu. tube with PVC unsheathed leads from terminals to the fitting (Ref.SD-88 EDD 2021-22)				1No (One number)	
26	1051.00	m2	Supplying and laying Interlocking paver block M40 grade Providing and laying of 60mm thick high strength type conforming IS 15658-2006 Interlocking TAMIN paver lock in size of minimum compressive strength of 40N/mm2 in uniform shape of approved make to be laid in flurring bone pattern with stone dust cushion below the uniform shape of approved non skitting surface in the top and the rate including levelling the base preparation of pavers as sub base,sand cushion 150mm thick laying out of pavement cut the pieces to fix the edge vibrating the pavers, sweeping tranporting loading unloading of laying paver block as per standard specification.,				1m2 (One Square meter)	
			GREENARY					
27	100.00	Nos	Providing and gardening and landscaping with ROSE plant including digested organic manure and bed layer vermicompost including cost and conveyance of all material to site etc., completed as per specification.Horticulture TNAU sale price from website.				1m3 (One Cubic meter)	

28	100.00	Nos	Providing and gardening and landscaping with MEDICINAL plant including digested organic manure and bed layer vermicompost including cost and conveyance of all material to site etc., completed as per specification.Horticulture TNAU sale price from website.				1m2 (One Square meter)	
29	100.00	Nos	Providing and gardening and landscaping with Oranamental plant including digested organic manure and bed layer vermicompost including cost and conveyance of all material to site etc., completed as per specification.Horticulture TNAU sale price from website.				1No (One number)	
			Water supply				1No (One number)	
30	1.00	No	Conducting geological survey for selecting the suitable site for a borewell etc., complete				1No (One number)	
31	100.00	Rm	Drilling of 6" borewell in hard rock area to any required depth as directed by the departmental officers concerned the rate including erection of PVC casing pipes in teh drilled hole, grouting the casing pipes if necessary and transportations charges for the rig and supporting vehicles etc complete.				1Rm (One running metre)	
32	30.00	No	Supply and delivery of 150mm PVC casing pipes of approved quality etc., complete				1No (One number)	
33	90.00	Rm,	Supplying and delivery of 32mm dia HDPE pipes etc complete				1Rm (One running metre)	
34			Supplying and fixing of GI specials as follows					
a)	12.00	Rm	32 mmGI Pipe				1Rm (One running metre)	
b)	4.00	No	32 mm GI coupling				1No (One number)	
c)	2.00	No	32 mm GI elbow				1No (One number)	
d)	1.00	No	32 mm GI union				1No (One number)	
e)	1.00	No	32 mmGI Hex nipple				1No (One number)	
f)	1.00	No	32 mm GM Non Return valve				1No (One number)	
g)	1.00	No	32mm GM Gate valve				1No (One number)	
h)	1.00	No	Bore cover				1No (One number)	
i)	1.00	No	Bore clamp				1No (One number)	
j)	95.00	Rm	12mm dia Nylon Rope for borewell				1Rm (One running metre)	
k)	30.00	Rm	25mm Pvc pipe 10kg				1Rm (One running metre)	
l)	2.00	No	25mm x 20mm reducer				1No (One number)	
m)	2.00	No	PVC screw down tap type 20mm dia				1No (One number)	

35	1.00	No	Erection of single phase 1.50 HP wet type submercible Pump set with necessary 32mm dia GI pipes, Couplings 1.5sq mm copper conductor and other necessary fittings etc complete and testing the pump set for 3 days tialrun (upto 1.5 HP)				1No (One number)	
36	1.00	No	Supply and delivery single phase 1.5HP Submersible pumpset 151pm x 90mtr suitable for 150mm DIA Borewell with isi mark is 8034 without panel board inloding cost and conveyance of materal and transport charges etc completed,				1No (One number)	
37	95.00	Rm	PVC insulated and sheathed 3 core flat type copper cable 1.5sq.mm conforming to IS 694/1990				1Rm (One running metre)	
38	1.00	No	Supply and delivery of Single phase panel board with two level guard and auto start for 1.5HP motor including all cost and conveyance of all materials and labour charges etc. complete as per standard specifications				1No (One number)	
			PLAY MATERIALS					
39	1.00	Nos	Supplying and erection of Children play equipment swing 2seater SS chain using "B" class 40mm G.I Pipes with M.S Angles 1 1/4"x1 1/4" and flats etc., including fabrication, transporting to site, erection and fixing in proper position, painting with Enamel paint as directed and labour charges etc., complete.				1No (One number)	

40	1.00	Nos	Supplying and fixing of Roller Slide SS to a height of 12 Ft with a product area of 3 x 16 Ft, that installed in a play area of 6 x 24 Ft, including necessary earthwork excavation, PCC 1:2:4 (one cement, two sand and four aggregate) and cost of materials, labour charges, conveyance, etc. complete as per the specifications directed by the department officers.				1No (One number)	
41	1.00	Nos	Supplying and fixing of See Saw 4 Seater FRP Seat to a height of 0.50m with 80mm dia leaver and 40mm top bar with MS pipes. The seat is of moulded plastic with heavy duty bush bearing. The cost shall inclusive of all materials, labours and fixing etc complete as directed by the dpeartmetal officers				1Rm (One running metre)	
			SEATING					
42	10.00	Nos	Supply, Delivery and Providing Three Seater back slope Granite stiff sitting benches 5 feet in length 1.50 feet width 600x450x100 mm size Hard Granite slab side walls, 150x45x100 mm size bench slab back slope slab including cost and conveyance and fixing in position etc complete				1No (One number)	

			LIGHTING 15 M INTERVAL					
43	19.00	Nos	Supplying and fixing of 6 metre length single bracket pole with base plate (250x250x6mm0 76.10mm OD x 3.65 mm thick x 6000mm Length in control box with foundation hardwares. etc complete as per standard specification. As per PWD SOR 2021-22 P.No.98				1No (One number)	
44	19.00	Nos	Supply and Fixing of 30 W LED Street Light Fittings				1No (One number)	
45	295.00	Rm	Supply and laying of 2 x 16 sq.mm PVC armoured LTUG cable in a trench to be excavated at a depth of 0.75 metre putting 0.15 mt. Layer of sand and covering the cable completely with bricks and sand and refilling the earth to make good				1Rm (One running metre)	
46	5.00	Rm	Supply and run of 4 x 6 sqmm (84/0.3) PVC insulated SC unsheathed Cu. conductor of 1100V on 7/20 GI bearer wire for service connection mains etc., complete. (SD 68) PWD Electrical Dept 2021-22				1Rm (One running metre)	
47	5.00	Rm	Supply and run of 4 x 6 sq.mm (84/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100V grade in 32mm dia GI pipe (Class 'B') suitably bent at both ends with necessary angle iron up right and end supports for mains (SD 73) PWD Electrical Dept 2021-22				1Rm (One running metre)	
48	1.00	No	Supply and fixng of TNEB Moter Board suitable for 3 Phases 100A service connection made up of suitable angle iron frame work of size 2 feet x 1 1/2 feet using angle iron of size 1 1/2" x 1 1/2" x 1/4"rigidly fixed on wall covered with hylem sheet of size 2 feet x 1 1/2 feet of 12mm thickness with necessary bolts and nuts supports and supply and fixing of 3 Nos 100A fuse units (500V) 1 No. Neutral link, copper earth flat of size 1" x 1/4" with inter connection of EB meter to fuse units by 7/16 PVC insulated copper wire with earth connection complete. (SD 130) PWD Electrical Dept 2017-18				1No (One number)	

			Entrance Arch					
49	1.00	No	Supply and fixing of over-head Direction / Advance Information Gantry Signboard of size 8000mm x 900mm made out of retro reflective sheeting of Wide Angle Cube Corner Micro prismatic grade conforming to IRC-67: 2010 & Type XI standards of ASTM D 4956 –09 with 7 Years Warranty for Reflective Sheeting as per clause 6.9 of IRC 67: 2010 fully covered over 2 mm thick Aluminium. The background color of retro-reflective material shall be in Blue and text shall be in white. The item includes erection of support structure of steel section of size 300 NB (M) Vertical Pipe, 80 NB (M) horizontal pipe and 40 NB (M) Pipe for Strauss supported on a suitable Back support frame of L angle & other support structure and earthwork excavation & RCC foundation, 2 coats of approved color synthetic enamel painting to the steel surfaces, including curing, cost of all materials, labor, loading, unloading, lead, lift, transportation etc complete as per the approved structural specification / direction of the engineer in-charge.				1No (One number)	

			RO System					
50	1.00	No	<p>Supplying and erecting in position of following 50 liters capacity Industrial Model Reverse Osmosis Water-cum-Purifier to deliver Potable Water with World Health Organisation (WHO) Standards with following accessories.</p> <p>(a) MS Skid - 1 No.</p> <p>(b) Media 11054 No. Vessel with 20 nb Multiport Valve (with Media Pubble and Fine Sand and Activated Carbon Filling) set</p> <p>(c) Feed Pump 0.50 HP – 1 No.</p> <p>(d) Vertical Pump 2-9, 2.00 HP / Single Phase – 1 No.</p> <p>(e) Membrane 40 x 40 filmtech (or) equilaents / Osmonic (USA) - 1 No. and Membrane Pressure Vessel 40 x 40 - 1 No.</p> <p>& Pressure Gauge - 2 Nos.</p> <p>(f) Flow Meter - 1 No. 20" Filter with Housing - 1 No., Low Pressure Switch - 1 No., Level Switch - 1 No. & Necessary CPVC Pipes and Fittings.</p> <p>The system shall be provide with Two Panel Control System with necessary Stainless Valves and Fittings and Float Control etc. The rate should be inclusive of all civil works, wherever necessary to install the System in position and intact.</p>				1No (One number)	

			CCTV Camera					
51			Supplying and fixing of following materials for CCTV accessories as per the departmental officer etc., complete as per standard specification.					
a	293.56	Rm	Armoured CCTV cable CAT-6					
b	1.00	No	POE switch for CCTV IP cameras (8ports)				1No (Running meter)	
c	1.00	No	Hard disk for NVR (6TR)				1No (One number)	
d	1.00	No	Network video recording for CCTV 8 channel-1 SATA 1No hard disk				1No (One number)	
e	8.00	No	CCTV Camera				1No (One number)	
f	1.00	No	6U Rack with accessories				1No (One number)	
g	16.00	No	I/O SOCKET RJ45				1No (One number)	
h	16.00	No	I/O SOCKET RJ11				1No (One number)	
i	1.00	No	29" LED TV				1No (One number)	
			Hand rails (SS)					
52	198.00	m2	Manufacturing, Supplying and Fixing of Stainless Steel Hand rails for staircase using 50mm dia 304L Grade Stainless Steel pipe of 1.60mm thick at required locations to a height of 900mm from finished floor level welded to 38mm dia Stainless Steel pipe post of 1.00mm thick as vertical at 900mm centre with 2 Nos. of 25mm dia intermediate horizontal stainless steel pipe of 1.60mm thick in between. The vertical pipe has to be welded to the 100 X 100 X 6mm MS base plate encased in the base concrete. The rate is inclusive of the charges for cutting, bending, welding, grinding, polishing, conveyance, electrical charges, etc. complete				1m2 (One Square meter)	
			Soild Waste Bins					
53	5.00	Nos	Supply of different designs of dust bins made of six layer bonding of glass fibre such as Fish Dustbin (2.75 Ft ht), Rabbit Dustbin (2.75 Ft ht), Monkey Dusbin (2.75 Ft ht), Cartoon Duck Dustbin (3.25 Ft ht) and Penguin Dustbin (2.75 Ft ht), including material cost conveyance charges as per the specifications directed by the departmental officers				1No (One number)	

			HDPE Tank					
54	1.00	No	Supply and fixing in position of HDPE drinking water storage IS 12701/1996 tank of 2000 Litre capacity including loading, unloading transportation and labour charges for fixing G.I pipes and specials for pipe connection works with isi mark etc completed. (TWAD-Catagory no.17)				1No (One number)	
55	30.00	m2	Supplying and fixing colour galvanum sheet roof of 0.47mm thick and steel tubular box section of 100x50x3mm of 1meter interval including priming coat fixing in position with all necessary accessories complete complying with standard specification and as directed by the departmental officers.				1m2 (One Square meter)	

(Schedule Items 01-55 Only)

Assistant Engineer
Pudukkottai Municipality

Municipal Engineer,
Pudukkottai Municipality