

AQUATIC COMPLEX PIRAPPINCODE - ADDITIONAL WORKS SUGGESTED BY NGOC (Civil works)						
I.No.	Description of Item	Quantity		Rate (Rs)	Unit	Amount(Rs)
1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth upto 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed :					
a)	All kinds of soil	365.00	Sqm	9965.65	100 Sqm	36375.00
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
a)	All kinds of soil.	5.00	Cum	270.90	One Cum	1355.00
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	55.00	Cum	218.95	One Cum	12042.00
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
a)	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	1.00	Cum	6433.30	One Cum	6433.00

5	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain windowsills, fillets, sunken floor, etc., up to floor five level, excluding the cost of centering, shuttering and finishing :					
a)	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	2.00	Cum	9128.95	One Cum	18258.00
6	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with :					
a)	Cement mortar 1:6 (1 cement : 6 coarse sand).	3.50	Cum	6205.70	One Cum	21720.00
7	Providing and laying precast machine moulded cement concrete solid block in block masonry of specified thickness with block of grade (D5) with minimum compressive strength of 5 N/mm ² and block density not less than 1800 Kg/cum conforming to IS 2185 of size 300x200x150 mm in cement concrete 1:5:10 (1 cement:5 msand:10 graded stone aggregate 12 mm nominal size) with cement mortar 1:6 (1 cement:6 coarse sand) including scaffolding, raking outjoints and filling the joints with cement mortar finishingneatly block upto floor five level complete as directed by the Engineer in charge.	8.00	Cum	7796.80	One Cum	62374.00
				LMR		
8	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :					

a)	250x16 mm	27.00	No.	282.80	Each	7636.00
9	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :					
a)	250x10 mm	27.00	No.	138.95	Each	3752.00
b)	150x10 mm	45.00	No.	88.60	Each	3987.00
10	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :					
a)	75 mm	54.00	No.	68.80	Each	3715.00
11	Providing and fixing PVC Door Frame of size 50x47mm with a wall thickness of 5 mm (± 0.2 mm) made out of single piece extruded PVC profile, with mitred cut joints and joint with 2nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15mm & self driven self taping screws, the vertical door profiles to be reinforced with 40x20mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8x100mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	128.00	m	Rs 663.70	One Metre	84954.00

12	30 mm thick factory made Solid panel PVC Door shutter made out of single piece extruded solid PVC profiles, 5 mm (± 0.2mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.					
a)	Non decorative finish (matt finish).	45.00	Sqm	4091.58	One Sqm	184121.00
13	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size, with top and bottom rail of T-iron 40x40x6mm, with 40mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	34.00	Sqm	8474.60	One Sqm	288136.00
14	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
a)	In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.	1000.00	Kg	98.80	One Kg	98800.00

b)	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	100.00	Kg	134.25	One Kg	13425.00
15	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying a priming coat of approved steel primer.					
a)	M.S. tube.	35.00	Kg	161.55	One Kg	5654.00
16	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	465.00	Kg	717.30	One Kg	333545.00
17	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.					
a)	Hot finished welded type tubes.	240.00	Kg	159.00	One Kg	38160.00

18	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	130.00	Sqm	1360.15	One Sqm	176820.00
19	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i)Single socketed pipes.					
a)	75 mm diameter	24.00	m	221.45	One Metre	5315.00
b)	110 mm diameter	12.00	m	352.30	One Metre	4228.00
20	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion.					
a)	Bend 87.5°					
(i)	75 mm bend	16.00	No.	158.45	Each	2535.00
(ii)	110 mm bend	4.00	No.	237.25	Each	949.00

21	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hardwood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					
a)	75 mm	16.00	No.	297.09	Each	4753.00
b)	110 mm	4.00	No.	323.22	Each	1293.00
22	15 mm cement plaster on the rough side of single or half brick wall of mix :					
a)	1:6 (1 cement: 6 fine sand)	85.00	Sqm	324.00	One Sqm	27540.00
23	12 mm cement plaster of mix :					
a)	1:6 (1 cement: 6 fine sand)	100.00	Sqm	279.70	One Sqm	27970.00
24	12 mm cement plaster finished with a floating coat of neat cement of mix :					
a)	1:3 (1 cement: 3 fine sand)	12.00	Sqm	387.62	One Sqm	4651.00
25	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					
a)	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	175.00	Sqm	176.30	One Sqm	30853.00
26	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50metres lead :					

a)	With cement mortar 1:4 (1 cement : 4 fine sand).	15.00	Sqm	454.20	One Sqm	6813.00
27	Distemping with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					
a)	One coat.	150.00	Sqm	48.80	One Sqm	7320.00
b)	Two coats.	200.00	Sqm	80.35	One Sqm	16070.00
28	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	365.00	Sqm	1065.10	One Sqm	388762.00
29	Providing and fixing CP brass bib cock/pillar tap of approved quality :					
a)	15 mm nominal bore	20.00	No.	910.85	Each	18217.00
30	Providing and fixing CP brass stop cock of approved quality :					
a)	15 mm nominal bore	15.00	No.	925.35	Each	13880.00
31	Attending leakage of C.P brass bib cock/Pillar tap by replacing the suitable brass spindle with washer etc. as directed by the Engineer-in-Charge.	15.00	No.	319.40	Each	4791.00

				LMR		
32	Providing and fixing UPVC) composite pressure pipes including all special fittings of composite material . with clamps (Internal work exposed on wall): (40 mm O/D) pipe.	160.00	metre	574.00	One metre	91840.00
				LMR		
33	Providing and fixing (UPVC) composite pressure pipes etc. trenching and refilling. (External work): (40 mm O/D) pipe.	60.00	metre	485.45	One metre	29127.00
				LMR		
34	Providing and fixing (UPVC) composite pressure pipes all fittings with clamps (Internal work exposed on wall): (concealed work) 2025 (25 mm O/D) pipe.	40.00	metre	360.65	One metre	14426.00
				LMR		
35	Providing and fixing (UPVC) composite pressure pipes all fittings with clamps (Internal work exposed on wall): (concealed work) 1620 (20 mm O/D) pipe.	20.00	metre	307.80	One metre	6156.00
				LMR		
36	Making chases up to 7.5x7.5 cm in walls i.. after housing PVC. pipe etc.	20.00	metre	157.00	One metre	3140.00
37	Supplying and fixing C.I. cover without frame for manholes : 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	3.00	No.	1852.35	Each	5557.00
38	Raising manhole cover and frame slab to required level. Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD - 2.5 .including finishing the inside edges of the manhole etc complete.	8.00	No.	2590.25	Each	20722.00
39	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
a)	32 mm nominal bore.	2.00	No.	1020.65	Each	2041.00

40	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	2000.00	Ltr	9.30	One Litre	18600.00
41	Providing and fixing PTMT grating of approved quality and colour. Circular type. 125 mm nominal dia with 25 mm waste hole	10.00	No.	84.55	Each	846.00
42	Cutting holes up to 15x15cm in R.C.C. floors and roofs for passing drain pipe etc.-including finishing complete so as to make it leak proof.	3.00	No.	341.40	Each	1024.00
43	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :					
a	Powder coated aluminium (minimum thickness of powder coating 50 micron)	105.00	Kg	575.75	One Kg	60454.00

44	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
(i)	Powder coated aluminium (minimum thickness of powder coating 50 micron)	23.00	Kg	673.70	One Kilogram	15495.00
45	Providing and fixing 12mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.					
a)	Pre-laminated particle board with decorative lamination on both sides.	7.30	Sqm	1662.75	One Sqm	12138.00
46	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):					
a)	With float glass panes of 5.50 mm thickness	8.00	Sqm	1621.50	One Square Metre	12972.00

47	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.					
a)	With stainless steel cover plate minimum 1.25 mm thickness.	1.00	No.	3104.00	Each	3104.00
48	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	1.00	No.	620.90	Each	621.00
49	Providing and fixing Cast Iron wheel(heavey duty) not less than 100 mm dia with bearing to the movable ladder as per the direction of the Engineer in charge	6.00	No.	813.05	Each	4878.00
				LMR		
50	Cutting SS hand rails including grinding the the edges and stacking the balance material as directed	27.00	running metre	140.35	One metre	3789.00
				LMR		
51	Providing and fixing 9 mm thick ply wood to the platfrm including cutting sizing and fixing the pieces to make the platform on steel structure already erected with stainless steel screws(For VIP platform &removable step)	22.00	Sqm	3003.50	One Sqm	66077.00

52	Core cutting the RCC plinth beam for inserting 75 mm dia pvc drain out pipe including fixing the pipe in position and laekproofing the jionts (Cost of 75 mm dia PVC pipe will be paid separately)	2.00	No.	755.00	Each	1510.00
				LMR		
53	Fixing the available marker tile/ swimming pool tile by cutting the damged tiles carefully from pool cleaning the joints and fixing the Supplied tiles with tile fixing compound exactly in line and level with adjoining tiles (Marker tlie/swimming pool tiles will be arranged by NGS)	60.00	No.	146.50	Each	8790.00
				LMR		
54	Re fixing the false start indicator by cutting concrete and refixing the same with new Ss pipe sleeve of suitable dia .The sleeve shall be fixed in correct alignmnet and level as directed by the pool experts	4.00	No.	991.00	Each	3964.00
				LMR		
55	Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS :15.38:					
a)	Up to 300 mm dia	0.15	Qtl	9953.30	One Qntl	1493.00
56	Supply and fixing 200mm PVC pipe in line leading to drain extension etc complete.	18.00	metre	1454.05	One metre	26173.00
57	Supplying and fixing 200mm dia pvc bend fixing the PVC bend in position complete.	2.00	No.	1193.65	Each	2387.00
				LMR		
					Total	2384526.00

NATIONAL GAMES SECRETARIAT		
AQUATIC COMPLEX PIRAPPINCODE - ADDITIONAL WORKS SUGGESTED BY NGOC (Civil works)		
TENDER SCHEDULE :- ABSTRACT		
Description		
CIVIL WORKS		2384526.00
TOTAL		2384526.00
Value of market rate items		234032.00
Value of PWD SOR items		2150494
Grand total		2384526.00
Rupees Twenty Three Lakh Eighty Four Thousand Five Hundred and Twenty Six Only		
I/We agree to carry out the work at par with estimate (1) at estimate rate.....		
.....		
(2).....% above the estimate (in figure & words).....		
.....		
.....(3).....% below the estimate (in figure & words)		
less cost of market rate items and L/S items.		
** Tender excess will not be applicable for market rate items in the schedule of contract		
Witness		
Name.....		
Address.....		