

CONSTRUCTION OF PROPOSED INTERNATIONAL ARCHERY ACADEMY AT PULPALLY ,WAYANAD

SPECIFICATION AND SCHEDULE OF QUANTITIES

SPECIFICATION AND SCHEDULE OF QUANTITIES-PART A- CIVIL WORKS

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
	SH :1 EARTHWORK						
1.01	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	sqm	715.00	0.00	3153.15	4.41	3,153
1.02	Earth work in excavation by means (Hydraulic excavator)/manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within the site as directed by the Engineer- in-Charge						
	All kinds of soil	cum	142.00	0.00	24419.74	171.97	24,420
1.03	Do same as above item no1.05 but for every additional lift of 1.5m to 3.00m or part there of						
	All kinds of soil.	cum	1.00	0.00	236.53	236.53	237
1.04	Filling in plinth or trenches, under floors, foundations, in areas etc. with red earth including watering, ramming consolidating and dressing, cost and conveyance of all materials,labour charges,lead,lift etc complete at all levels as directed by the Engineer- in-Charge	cum	18.00	0.00	15062.58	836.81	15,063
1.05	Filling available excavated earth(excluding rock) in trenches, under floors,plinth,sides of foundation,in areas etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering,lead upto 50m and lift upto 1.5m including cost and conveyance of all materials,labour charges, etc complete at all levels as directed by the Engineer-in-Charge	cum	34.00	0.00	4317.66	126.99	4,318

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
1.06	Extra for additional lead upto 100m over initial lead of 50m for disposing surplus excavated earth as per the direction of Engineer-in-Charge.	cum	5.00	0.00	372.25	74.45	372
TOTAL OF SUB HEAD -1.0							47,562
(SH: - 2.0 - CONCRETE WORK)							
2.01	Providing and laying cement concrete of specific grade properly mixed and consolidated with hand rammers, including cost and conveyance of all materials, labour, curing, lead lift , etc. complete for all work up to olinth levels as directed by Engineer- in-Charge.						
2.01.01	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	20.00	0.00	127074.40	6353.72	127,074
2.02	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate of 20mm nominal size) including cost and conveyance of all materials,labour charges,lead,lift etc complete at all levels as directed by the Engineer- in-Charge	sqm	59.00	0.00	28822.09	488.51	28,822
2.03	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square metre on damp -proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil including cost and conveyance of all materials,labour charges,lead,lift etc complete at all levels as directed by the Engineer-in-Charge	sqm	59.00	0.00	6960.82	117.98	6,961
TOTAL OF SUB HEAD -2.0							162,857
(SH: - 3.0 - R.C.C. WORK)							

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
3.01	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of M-25 grade for reinforced cement concrete structural elements, excluding the cost of centering, shuttering, finishing and reinforcement including admixtures in recommended proportion (as per IS 9103) to accelerate,retard setting of concrete to improve workability without impairing strength and durability as per direction of Engineer-in-Charge .						
	All work upto plinth level.	cum	10.00	0.00	85202.20	8520.22	85,202
3.02	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of M-25 grade for reinforced cement concrete structural elements, excluding the cost of centering, shuttering, finishing and reinforcement including admixtures in recommended proportion (as per IS 9103) to accelerate,retard setting of concrete to improve workability without impairing strength and durability as per direction of Engineer-in-Charge .						
	All work above plinth level upto floor V level.	cum	14.00	0.00	130808.16	9343.44	130,808
3.03	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding with 16 gauge GI binding wire etc complete including cost, conveyance, lead, lift of all materials for all types of RCC works as per drawing/specification and as directed by Engineer-in-Charge at all levels.						
	Thermo-Mechanically Treated bars	kg	2640.00	0.00	194462.40	73.66	194,462
3.04	Centering and shuttering including strutting, propping etc. and removal of form for :						
3.04.01	Foundations, footings, bases of columns etc. for mass concrete.	sqm	11.00	0.00	2633.18	239.38	2,633
3.04.02	Suspended floors, roofs, landings, balconies and access platform.	sqm	20.00	0.00	9759.00	487.95	9,759

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
3.04.03	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	151.00	0.00	59992.30	397.30	59,992
3.04.04	Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	10.00	0.00	5619.50	561.95	5,620
3.04.05	Edges of slab and breaks in floors and walls under 20 cms wide	m	11.00	0.00	1382.26	125.66	1,382
TOTAL SUB HEAD-3.0							489,859
(SH: - 4.0 - MASONRY WORK)							
4.01	Providing and constructing Solid block masonry M-10 grade(mix 1:3:6)(1;cement ,3:crusher sand,6: 6mm metal) in C.M1:6(1cement, 6 coarse sand) with Solid blocks of 30x20x15 cm size and approved quality including scaffolding, raking out of joints,curing, cost and conveyance of all materials,labour, lead, lift, etc. complete for all types of masonry works in below the highest plinth level as directed by Engineer-in-Charge	cum	2.00	0.00	10786.78	5393.39	10,787
4.02	Providing and constructing Solid block masonry M-10 grade(mix 1:3:6) (1;cement ,3:crusher sand,6: 6mm metal)in CM1:6(1cement, 6 coarse sand) with Solid blocks of 30x20x15 cm size and approved quality including scaffolding, raking out of joints,curing, cost and conveyance of all materials,labour, lead, lift, etc. complete for all types of masonry works in super structure above the highest plinth level as directed by Engineer-in-Charge at all levels	cum	56.00	0.00	372845.76	6657.96	372,846

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
4.03	Providing and constructing 115mm thick brick masonry in CM 1:4 (1 cement, 4 coarse sand) in partition walls, parapets, etc. with bricks of standard sizes and of approved quality (average compressive strength not less than 50 Kg/cm ²) including scaffolding, raking out of joints, curing, cost and conveyance of all materials, lead, lift, etc. complete including providing 2 Nos. of 8mm dia bars as reinforcement at every third layer wherever specified (Reinforcement shall be measured and paid for under relevant item) and as directed by Engineer-in-Charge	sqm	63.00	0.00	48162.87	764.49	48,163
4.04	Extra for providing and placing in position 2 Nos. 6 mm dia M.S. bars at every third course of single block masonry at all levels including cost and conveyance of MS bars etc complete as directed by Engineer-in-Charge	sqm	63.00	0.00	4842.18	76.86	4,842
4.05	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) at plinth level with cement mortar 1:6 (1 cement : 6 coarse sand) including raking out of joints, filling the joints /hollows with suitable sizes of split stones, filling the joints clearly, curing, cost and conveyance of all materials, cost of bond stone (should be provided at every 0.5 sqm of face area), lead, lift etc. complete as directed by Engineer-in-Charge at all levels.	cum	57.00	0.00	341602.14	5993.02	341,602
TOTAL SUB HEAD 4.0							778,240
(SH: - 5.0 - JOINERY WORKS)							

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
5.01	Providing and fixing powder coated aluminium work for doors ,windows& partitions with extruded built up standard tubular sections/appropriate Z sections & other sections of approved make confirming to IS:733 & IS:1285 fixed with rawl plugs & screws or with fixing clips including necessary filling up of gaps at junctions,at top,bottom & sides with required PVC/neoprene felt etc.Aluminium sections shall be smooth,rust free,straight,mitred & jointed mechanically where ever required including cleat angle,aluminium snap beading for glazing/panelling,cp brass/stainless steel screws all complete as per architectutal drawings & directions of Engineer-in-Charge at all levels.(glazing & panelling to be paid seperately).Minimum thickness of powder coating for powder coated Aluminium shall be 50 micron						
5.01.01	For fixed portion	kg	292.00	0.00	117827.84	403.52	117,828
5.01.02	For shutter of doors ,windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings,exhaust fan of required size,etc wherever required including the cost of PVC neoprene gasket required(fittings shall be paid for separately)	kg	389.00	0.00	182884.46	470.14	182,884
5.02	Providing and fixing glazing in aluminium doors,windows,ventilator shutters,partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directon of Engineer-in-Charge at all levels						
5.02.01	with float glass panes of 4.00mm thickness	sqm	49.00	0.00	41924.89	855.61	41,925
5.03	Providing and fixing bright finished brass100mm mortice latch and lock ISI marked with 6 levers and a pair of anodised(anodic coating not less than grade AC 10 as per IS:1868)aluminium lever handles with necessary screws etc. complete at all levels.(best make of approved quality)	no	7.00	0.00	4158.84	594.12	4,159

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
5.04	Providing and fixing 100 x 10 mm 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 nuts and screws etc. complete as directed by the Engineer-in-Charge at all levels.	no	14.00	0.00	715.12	51.08	715
	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour and shade with necessary screws etc complete as directed by the Engineer-in -Charge at all levels						
	Single rubber stopper	no	7.00	0.00	401.94	57.42	402
5.06	Supplying and fixing MS oxidized Hooks & Eyes as directed by the Engineer- in-Charge.						
5.06.01	200mm	no	108.00	0.00	1262.52	11.69	1,263
5.07	Supplying and fixing FRP frames made of glass fibre conforming to IS:11551-1986, glass fibre rovings conforming to IS:11390-1985,isophthalic resin conforming to IS: 6746-1972, curing agents,accelerators, fillers, additives, fire retardants and pigments as specified. The frames shall be contact moulded by laying gelcoat at 500gm/m2 and laid over with two layers of FRP mat (one layer of 300 CSM mat and one layer of 450 CSM mat). The CSM mat shall be bonded with isophthalic resin and fillers of additives by weight. The edges shall be sealed with gelcoat and FRP mat to obtain smooth finish. The frames shall have an overall size of 100x63mm including the thickness of FRP and shall be filled with seasoned treated rubber wood on the inside. Suitable depressions shall be made in the door frames for receiving the fixtures such as hinges, mortice lock as well as 30mm door shutter. (one number mortice lock at the centre and three numbers of 100mm heavy duty hinges).						

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
	The rate shall include providing and fixing frames of approved colour for, providing and fixing 6 Nos. of flat iron hold fast of size 300mmx30mmx3mm using stainless steel screws, fixing in PCC 1:2:4 blocks, finishing the joints to match the surroundings and finishing the frames by buffing and polishing with wax as directed. (The contractor shall supply 1 No. of frames free of cost for every 10 Nos. of frames supplied at site or part thereof for destructive testing) The shutter shall be contact moulded by laying gelcoat at 500gm/m ² and laid over with two layers of FRP mat (one layer of 300 CSM mat and another layer of 450 CSM mat) for each of the web (panels) and two layers of FRP mat (one layer of 300 CSM mat and another layer of 450 CSM mat) for the flange portion (rails and styles).						
	The CSM mat shall be bonded with isophthalic resin in the ratio of not less than 1:2 (one part of mat : 2 part of isophthalic resin and fillers and additives) by weight. The edges shall be sealed with gelcoat and FRP mat to obtain smooth finish. The shutter/frames shall have an overall thickness of 30mm with a width of 100mm for outer frames and 80mm for resin frames (as per drawings enclosed). The shutter frames shall be provided with treated and seasoned rubber-wood on the insides to receive the tower bolts, handle, mortise lock, hinges, door closers, etc. at specified locations. Suitable depressions shall be made in the shutter frames for receiving the hinges and concealed mortise locks. The rates shall include providing and fixing shutter of						
	approved colour in the frames already provided and fixed, including fittings such as hinges, tower bolts, handles, door closers, mortice locks, etc. but excluding the cost of door fittings. The shutter shall be buffed and polished with wax as directed. The thickness of FRP laminate of hollow rails and styles shall be minimum 2mm and thickness of FRP laminate used for panel in shutter shall be minimum 3mm.(Mode of measurement: Length shall be taken as back to back of outer frame and the height shall be taken from the Sill to the top of the outer frame)	sqm	11.00	64968.53	0.00	5906.23	64,969

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
	TOTAL OF SUB HEAD-5.0						414,144
	(SH: - 6.0 - STEEL WORK)						
6.01	Structural steel work welded in built up sections,trussess and framed work including cutting, hoisting, fixing in position and applying two coats of Synthetic enamel paint over two coats of anticorrossive Yellow zinc chromate primer including cost and conveyance of all materials,labour charges ,lead,lift etc complete as directed by Engineer- in-Charge at all levels	kg	3226.00	0.00	269500.04	83.54	269,500
6.02	Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and applying two coats of approved make and colour synthetic enamel paint over two coats of approved make anticorrossive yellow zinc chromate primer, etc. including cost and conveyance of all materials, labour, lead,lift etc. complete as directed by Engineer- in-Charge at all levels						
6.02.02	In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	kg	341.00	0.00	35978.91	105.51	35,979
6.03	Structural steel work welded in single sections,trussess and framed work including cutting, hoisting, fixing in position and applying two coats of Synthetic enamel paint over two coats of anticorrossive Yellow zinc chromate primer including cost and conveyance of all materials,labour charges ,lead,lift etc complete as directed by Engineer in Charge at all levels	kg	3346.00	0.00	249243.54	74.49	249,244

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
6.04	Steel work in built up tubular sections YST 310 grade as per IS: 4923 including cutting, hoisting, fixing in position, welded and bolted including special shaped washers etc. complete with electric resistance or induction butt welded tubes including painting with two coats of approved make and colour synthetic enamel paint over two coats of approved make anticorrosive yellow zinc chromate primer, closing all the open ends properly with same material cost and conveyance of all materials, labour, etc., complete as directed by the Engineer-in-Charge at all levels.	kg	1502.00	0.00	238051.98	158.49	238,052
	TOTAL OF SUB HEAD-6.0						792,774
	(SH: - 7.0 - FLOORING WORK)						
7.01	Providing and fixing Vitrified floor tiles 600x600x9 mm of 1st quality conforming to IS : 15622 of approved make,shade,and pattern laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade .including cost and conveyance of all materials,labour charges,lead,lift etc, complete as directed by the Engineer in Charge(The purchase price of tiles should be taken as Rs.715/sqm and any deviation plus or minus in the purchase price in approved shade will be adjusted in the price quoted).						
	Size of Tile 60x60 cm	sqm	153.00	0.00	204169.32	1334.44	204,169

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
7.02	Providing and laying Antiskid Ceramic floor tiles 300x300x7 mm of 1st quality conforming to IS : 15622 of approved make, shade, and pattern laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc. including cost and conveyance of all materials, labour charges, lead, lift etc, complete as directed by the Engineer in Charge at all levels. (The purchase price of tiles should be taken as Rs.400/sqm and any deviation plus or minus in the purchase price in approved shade will be adjusted in the price quoted)	sqm	28.00	0.00	27667.08	988.11	27,667
7.03	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-charge in skirting, risers of steps and dados over 12mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. (The purchase price of tiles should be taken as Rs.414/sqm and any deviation plus or minus in the purchase price in approved shade will be adjusted in the price quoted)	sqm	73.00	0.00	74464.38	1020.06	74,464
7.04	Providing and laying 16 to 20 mm thick polished granite slab with edge rounding & polishing if required of approved colour, make and pattern on floors, top of counter slabs, skirting, treads of steps, landings etc., including an underlayer of cement mortar 1:4 (1 cement : 4 coarse sand) 20mm thick and cement slurry @ 3.3kg of cement per sqm, finished with flush pointing using approved joint filler of matching shade including cost and conveyance of all materials labour etc. complete as directed by Engineer-in-Charge at all levels	sqm	8.00	0.00	27282.08	3410.26	27,282
7.05	Extra for providing edge moulding to 16 to 20mm thick marble/granite counters, Vanities etc. including machine polishing to edge to give high gloss finish, triple step groove etc. complete as per design and as approved by Engineer-in-Charge at all levels.	m	11.00	0.00	3437.94	312.54	3,438

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
7.06	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/granite work including providing necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete as directed by the Engineer-in-Charge at all levels.	no	4.00	0.00	1999.08	499.77	1,999
TOTAL OF SUB HEAD-7.0							339,020
(SH: - 8.0 - ROOFING WORK)							
8.01	Providing and laying MP tiles of size 320mm or nearest with Class AA Mangalore pattern tiles over the cement mortar reeper bands already done to correct lines and levels including the cost, conveyance of all materials,labour charges,lead,lift etc complete as directed by the Engineer-in-Charge at all levels.(cost of cement mortar reeper bands will be paid seperately).	sqm	460.00	0.00	327846.60	712.71	327,847
8.02	Providing and laying MP hip and ridge tiles with class AA Mangalore pattern tiles (COMTRUST) manufactured by M/s Common Wealth Trust Ltd., or equivalent including fixing with cement mortar 1:2 (1 cement : 2 coarse sand) as directed by Engineer-in-Charge at all levels. (The purchase price considered for MP tile is Rs.61 per tile and any deviation plus or minus in the purchase price will be adjusted in the price quoted).	m	79.00	0.00	28817.62	364.78	28,818
8.03	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 10mm gap for thermal expansion.						
8.03.01	Single socketed pipes						
8.03.01.02	110mm diameter OD	m	33.00	0.00	8065.20	244.40	8,065

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
8.04	Providing Gypsum board ceiling with ISI standard Gypsum board with alround cornices, supported by frame work made with G.I perimeter channels (MF6A) along the perimeter of ceiling and sides of RCC column, screwing to brick walls/RCC surface with the help of Nylon sleeves and screws at 600mm c/c, then suspending or fixing G.I. intermediate channels (MF7) at 1200mm c/c (or nearest spacing) with the help of G.I. hanger/ steel G.I.supports/G.I ceiling angles fixed to supports with G.I. cleat and steel expansion fastening, then the ceiling section (MFS) fixed to the intermediate channels for fixingGypsum sheet with the help of connecting clip and screws in both directions perpendicular to the intermediate channels at 400mm c/c at required level including cost and conveyance of all materials and labour charges, scaffolding charges, finishing the joints of the sheets with Gypsum powder paste finishing the surface to smooth mat finish painting one coat of white cement etc. complete for interior ceiling for all floors	SQM	167.00	115230.00	0.00	690.00	115,230
	TOTAL OF SUB HEAD-8.0						479,959
	(SH: - 9.0 - FINISHING WORK)						
9.01	12mm cement plaster of mix 1:4 (1 cement : 4 fine sand)including cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer in charge at all levels.	sqm	551.00	0.00	118288.68	214.68	118,289
9.02	Applying one coat of cement primer of approved brand and manufacture on wall surface including cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer in charge at all levels.	sqm	551.00	0.00	19940.69	36.19	19,941

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
9.03	Finishing walls with acrylic smooth exterior paint for new work (Two or more coat applied @1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @ 2.20kg/ 10sqm including cost and conveyance of all materials, labour charges, scaffolding s etc complete as directed by the Engineer in Charge at all levels.	sqm	273.00	0.00	23478.00	86.00	23,478
9.04	Painting the inside walls with ready mix plastic emulsion paint of approved quality two or more coats to smooth even finish on ceiling and walls including cost and conveyance of all materials to site, labour charges, hire charges for scaffolding, etc as directed by Engineer-in-Charge at all levels.	sqm	278.00	0.00	22754.30	81.85	22,754
9.05	Finishing M.P. tiles with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) including cost and conveyance of all materials, labour charges, scaffolding, sundries etc complete as directed by the Engineer in charge at all levels.	sqm	365.00	0.00	51023.35	139.79	51,023
	TOTAL OF SUB HEAD-9.0						235,485
	(SH: - 10.0 - SANITARY INSTALLATION)						
10.01	Supplying and fixing European type floor mounted white glazed WC with trap including seat cover, with CP brass hinges and rubber buffers, 10 litres capacity PVC low level white flushing cistern with fittings and brackets, 40mm dia PVC flush bend over flow pipe with mosquito proof arrangements,with all necessary fittings complete including cutting and making good the walls and floors etc. complete as directed by the Engineer-in-Charge. (The purchase price considered for EWC is Rs.1250 seat cover is Rs.390,cistern is Rs1120and any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	6.00	0.00	30845.28	5140.88	30,845

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
10.02	Providing and fixing white ceramic table top round wash basin 470 mm or nearest size with C.I. brackets, 15 mm C.P. brass pillar cock, 32 mm C.P. brass waste of standard pattern,32mm diaCP brass bottle trap15 mm dia CP brass angle valve, including painting of fittings and brackets, cutting and making good the walls wherever required:(shade & make as approved by architect)including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge (The purchase price considered for wash basin is Rs.1587 pillar cock is Rs.325,bottle trap is Rs 1050,angle valve is Rs 430 and any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	7.00	8537.03	25848.03	4912.15	34,385
10.03	Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink with drain board of size 500x1040 mm bowl depth 250 mm as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets,including one CP brass swan neck pillar cock 15 mm NB, cutting and making good the walls wherever required : including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge (The purchase price considered for sink is Rs.2817 ,pillar cock is Rs.325 and any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	1.00	0.00	4814.41	4814.41	4,814
10.04	Providing and fixing CP brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels (The purchase price considered is Rs 415/-any deviation plus or minus in the purchase price will be adjusted in the price quoted).						
	15 mm nominal bore	no	6.00	0.00	3030.72	505.12	3,031

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
10.05	Providing and fixing floor trap of PVC,110 mm outer dia(multi trap) including CP cockroach free floor grating with cup etc including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels	no	9.00	2090.70	747.18	315.32	2,838
10.06	Providing and fixing CP Towel rail of approved make including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.(The purchase price considered is Rs 109/-any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	8.00	0.00	1282.24	160.28	1,282
10.07	Providing and fixing CP brass health faucets with 8mm dia 1 meter long flexible tube and wall hook with all fittings and fixtures complete including cutting and making good the walls and floors wherever required including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge at all levels.(The purchase price considered including all accessories is Rs 532/-any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	6.00	0.00	4163.10	693.85	4,163
10.08	Providing and fixing premium quality C.P. brass overhead shower 4" and wall flange of approved make and model including cost of all materials, labour etc., complete as directed by the Engineer-in-Charge at all levels. (The purchase price considered including all accessories is Rs. 284/- including all accessories any deviation plus or minus in the purchase price will be adjusted in the price quoted.)	no	4.00	0.00	1364.40	341.10	1,364

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
10.09	Supplying, laying and jointing hard PVC pipes with PVC specials such as tees, bends, door bend, door tee, elbows,unions, etc. with clamps testing the lines rectifying any leakages or defects,etc. complete as directed by the Engineer-in-Charge for soil, waste, rain water,drains, vent pipe, etc. concealed or open at all levels including cost and conveyance of all materials, labour charges, sundries etc complete for internal work-exposed on walls as directed by the Engineer in charge						
10.09.01	110mm OD(6 kg/cm2)	m	24.00	0.00	11016.96	459.04	11,017
10.09.02	75mm OD (6 kg/cm2)	m	48.00	0.00	14211.84	296.08	14,212
10.09.03	50mm OD (6 kg/cm2)	m	16.00	0.00	3604.64	225.29	3,605
10.10	Supplying, laying and jointing hard PVC pipes with PVC specials such as tees, bends, door bend, door tee, elbows,unions, etc. with clamps including earth work, refilling, ,testing the lines rectifying any leakages or defects,etc. complete as directed by the Engineer-in-Charge for soil, waste, rain water,drains, vent pipe, etc. concealed or open at all levels including cost and conveyance of all materials, labour charges, sundries etc complete for external works as directed by the Engineer -in-Charge						
10.10.01	160mm OD(6 kg/cm2)	m	60.00	0.00	33015.60	550.26	33,016
10.10.02	110mm OD(6 kg/cm2)	m	45.00	0.00	19751.85	438.93	19,752
10.10.03	75mm OD(6 kg/cm2)	m	18.00	0.00	4427.28	245.96	4,427
10.11	Providing and fixing PVC vent cowl to pipe already fixed as directed by Engineer-in-Charge at all levels.						

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
10.11.01	75 mm dia	no	2.00	0.00	120.80	60.40	121
10.11.02	110 mm dia	no	2.00	0.00	185.84	92.92	186
10.12	Providing & fixing angle valve for geyser points (The purchase price considered including all accessories is Rs 820/- and any deviation plus or minus in the purchase price will be adjusted in the price quoted)	no	4.00	3772.00	46.00	954.50	3,818
10.13	Supplying and fixing soap tray of approved quality and make including cost and conveyance of all materials labour charges ,lead, lift, all taxes ,cutting and making good the walls and floors etc complete etc complete as directed by the Engineer in Charge	no	9.00	0.00	1711.71	190.19	1,712
10.14	Providing and fixing mirror of superior glass (of approved quality) ,and of required shape and size with plastic moulded frame of approved make and shade with 4.5 mm thick hard board backing. rectangular mirror 450 x 300 mm	no	4.00	0.00	3147.40	786.85	3,147
TOTAL OF SUB HEAD-10.0							177,735
(SH: - 11.0 - WATER SUPPLY)							

SI.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
11.01	Supplying, laying, and jointing schedule 40 UPVC ASTM pipe and Schedule 80 ASTM-UPVC specials of approved make such as tees elbows, unions,bends,sockets bends,flanges, reducers, end caps,saddles, plugs,coupling, etc. including cost of all jointing materials like solvent cement, bolts, nuts, rubber washers,ferrule,pipe supports, cost of extra wastage of fittings during laying of pipe line such as rectification and recharging of the existing line as and when required etc.hire of tools and plant, cost and conveyance of water for testing after connecting to mains including all testing pipe line to the specified hydrostatic test pressure,rectifying any leakage or defects etc. complete.as directed by Engineer-in-Charge for water supply.						
11.01.01	75 mm dia ID	m	6.00	3370.21	436.01	634.37	3,806
11.01.02	63 mm dia ID	m	6.00	2582.01	296.13	479.69	2,878
11.01.03	50 mm dia ID	m	12.00	3179.95	592.25	314.35	3,772
11.01.04	40 mm dia ID	m	6.00	1182.29	159.19	223.58	1,341
11.01.05	32 mm dia ID	m	30.00	4960.19	795.91	191.87	5,756
11.01.06	25 mm dia ID	m	12.00	1508.44	240.44	145.74	1,749
11.02	Supplying, laying, jointing and hydrostatically testing ISI marked PVC pipes as per IS 4985 and specials such as Tees, elbows,bends,flanges, reducers, end caps,saddles, plugs,coupling, etc. as per IS 7834 or IS 10124as the case may be including cost of all jointing materials like solvent cement, bolts, nuts, rubber washers,ferrule,pipe supports, cost of extra wastage of fittings during laying of pipe line such as rectification and recharging of the existing line as and when required etc.hire of tools and plant, cost and conveyance of water for testing after connecting to mains including all testing charges,rectifying any leakage or defects, cutting and making good the walls etc. complete.as directed by Engineer-in-Charge for concealed lines for water supply.						

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
11.02.01	32 mm OD (10 kg/cm2)	m	32.00	0.00	7740.16	241.88	7,740
11.02.02	25 mm OD (10 kg/cm2)	m	48.00	0.00	10968.96	228.52	10,969
11.02.03	20 mm OD (10 kg/cm2)	m	16.00	0.00	3570.88	223.18	3,571
11.03	Providing and fixing gun metal gate valve with C.I. Wheel of approved quality (screwed end) including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer- in-Charge at all levels						
11.03.01	50 mm dia nominal bore	no	3.00	0.00	5349.36	1783.12	5,349
11.03.02	32 mm dia nominal bore	no	2.00	0.00	1573.78	786.89	1,574
11.03.03	25 mm dia nominal bore	no	2.00	0.00	1199.66	599.83	1,200
11.04	Providing and fixing gun metal non-return valve of approved quality, screwed and including all necessary fittings.						
11.04.01	50 mm dia nominal bore	no	1.00	3132.60	21.68	3154.28	3,154

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
11.05	Supplying approved make PVC gully trap and CI grating 300mmx300mm size and light duty C.I cover and frames 500mmx500mm of weight not less than 21kg each(CI MH cover and frame as per IS:1726) single sealed of size conveying to size the above mentioned items and constructing 50cmx50cm internal size gully trap chamber and depth upto 60cm,230 thk brick wall in CM 1:6 on a foundation of PCC 1:4:8.100mm thick plastering inside with CM 1:3,12mm thk with a neat cement flushing coat and conveying to site,cleaning ,installing and testing approved make PVC gulley trap with 160mm outlet(Fabricated),surrounding with CC 1:1.5:3, 150x150mmm,top with CI grating above the PVC gulley trap and light duy CI cover and frame over the chamber including cost of all materials, etc complete as per approved drawing and as directed by Engineer-in-Charge	no	4.00	0.00	8312.28	2078.07	8,312
11.06	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI:12701 marked indicating the BIS License No. 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 including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer in charge in multiple nos wherever required	ltr	1700.00	11849.00	0.00	6.97	11,849
11.07	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 Cement : 4 coarse sand) R.C.C. top slab with 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete with 1:4:8 mix (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 Cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design including cost and conveyance of all materials, labour charges, sundries etc complete as directed by the Engineer-in-Charge						

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
11.07.01	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :						
	With bricks.Class designation 75	no	8.00	0.00	88283.68	11035.46	88,284
11.08	Making soak pit 2.5 m diameter 3.0 meter deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S W drain pipe 100 mm diameter, 1.8 m long complete as per standard design and as directed by Engineer-in-Charge						
	With F P S bricks	no	1.00	0.00	17566.69	17566.69	17,567
11.09	Supplying and fixing of bore well submersible pump, with CI construction, CI impeller complete with motor, base plate, foundation bolts, nuts, pressure guage and all accessories. And working with 415V, 3ph and 50 Hz frequency						
	Capacity : 85 m3/hr Head 23 m	no	1.00	32858.84	1665.95	34524.78	34,525
11.10	Providing and fixing GM footvalve, flanged type, CI construction including all necessary fittings as per the direction of Engineer-in-Charge.						
11.10.01	50 mm	no	1.00	2166.72	21.68	2188.39	2,188
11.11	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 11 U V stabilized & anti -microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fitting						
	15 mm dia	m	15.00	3225.75	1216.50	296.15	4,442
	20mm dia	m	12.00	2798.64	973.20	314.32	3,772
	25mm dia	m	12.00	3523.14	973.14	374.69	4,496

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
11.12	Supplying,threading,laying and jointing GI C Class pipes and specials such as tees, bends,elbows,checknuts, etc with clamps including cutting and making good the walls, painting with suitable paint two coats, etc complete	m	80.00	42075.34	10343.86	655.24	52,419
TOTAL OF SUB HEAD-11.0							280,714
(SH: - 12.0 - MISCELLANEOUS BUILDING WORK)							
12.01	Providing and applying Antitermite treatment by injecting chemical emulsion Imidacloprid emulsiable concentrate 1% for pre-constructional treatment and creating a chemical barrier as per IS 6313 (Part II) 1981 for wall trenches, foundation, top surface of plinth filling, foundation of wall and floor, along the external perimeter of the building, etc. complete conforming to manufacturers specification and as directed by the Engineer-in-Charge. (Plinth area only to be measured for the payment)	sqm	220.00	17802.40	0.00	80.92	17,802
12.02	Providing and fixing ferro cement septic tank with heavy duty ferrocement cover of 50 users capacity including earthwork excavation, refilling, providing inlet outlet etc. complete including cost, conveyance, lead, lift of all materials as directed by Engineer in charge.	no	1.00	65044.00	0.00	65044.00	65,044
12.03	Boring/drilling in all soils including hard rock, sand stone and boulder with DTH Rig including hire charges, loading unloading, transportation, power and all cost of materials for drilling borewell to obtain an ensured output of potable water at the rate of 6m3/hr making. Strata charts etc complete as per direction of the Engineer-in-charge. 160mm- 200mm dia borehole for depth upto 100m (254mm dia bore hole upto hard rock level 100mm dia bore hole for remaining depth.)	no	1.00	54625.00	0.00	54625.00	54,625

Sl.No	Description Of Items	Unit	Quantity	MR	SR	Rate(Rs)	Amount(Rs)
12.04	Supplying, assembling, lowering and fixing in vertical position ISI marked PVC casing pipe, MW type as per IS 12818-1992 with threaded socketed ends as required and of approved brand and manufacturer all complete as per directions of the Engineer In charge 160 mm dia	m	150.00	112125.00	112125.00	1495.00	224,250
TOTAL OF SUB HEAD-12.0							361,721
				562607.77	3997464.00		
GRAND TOTAL							4,560,072

NATIONAL GAMES SECRETARIAT					
CONSTRUCTION OF PROPOSED INTERNATIONAL ARCHERY ACADEMY AT PULPALLY ,WAYANAD					
SPECIFCATION AND SCHEDULE OF QUANTITIES-PART B- ELECTRICAL WORKS					
Item. No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
	PART A				
1.0	LT PANEL BOARD AND ACCESSORIES				
	Supply, installation, testing and commissioning of Energy meter box of cubicle construction made from 1.6mm CRCA sheet suitable for accommodating one number of three phase Electronic Energy meter (supply of energy meter is under KSEB scope)and 3 nos.63A HRC fuse and neutral link ,3 nos of 2A SP MCB ,inter connections , providing necessary supports made from the same gauge CRCA sheet to fix energy meters, etc .The cubicle shall be provided with hinged door construction and vision panel for the meter compartment.Suitable knock out for cable entry and exit shall be provided.The entire board shall be painted with 2 coats of synthetic enamel paint over a coat of zinc chromate primer etc as required including fixing it on wall, making good the damages colour washing etc. as required. CRCA sheet alone be used for the fabrication. Angles/ flats/ slotted angles etc shall not be used for the fabrication of main housing of meter board.	no	1.00	6355.00	6355.00
1.2	MSB				
	Supply, installation, testing and commissioning of totally enclosed free standing floor mounting dust and vermin proof indoor cubicle type Main Switch Board (MSB) suitable for 415 V, 3 phase, 50 HZ supply, fabricated of 14 SWG CRCA sheet steel Powder coated complete with busbars having 250 A rating, indicating lamps (LED type) with 2A control MCBs, CT's, connections & interconnections with suitable size of copper leads/solid aluminium strips/rod and having following incoming and outgoing MCCBs as per the drawing and specifications(Refer particular specification and Drawing).				
	Incomer				

Item. No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
	63A, Four Pole Switch disconnecter fuse unit (SDFU) AC 23A complete with all accessories including handle, 3nos 63A Din type HRC fuse unit, neutral link etc. - 1No.				
	63A TPN busbar chamber with Aluminium busbar				
	RYB Indicating lamps LED type -3Nos.				
	Digital Voltmeter - 1 set				
	Digital Ammeter - 1 set				
	Outgoing				
	32A, TPN Switch disconnecter fuse unit (SDFU) AC 23A complete with all accessories including handle, 3nos 32A Din type HRC fuse unit, neutral link etc. - 5Nos.	no	1	80490.00	80490.00
	TOTAL(SUB PART)				86845.00
	PART B				
2.0	WIRING AND ACCESSORIES				
2.1	Supply & wiring for following points in surface/recessed mounted rigid medium gauge 20mm PVC conduit with all accessories, using 3 runs of 1.5 sqmm FRLS PVCinsulated stranded copper conductor single core wire for phase, neutral & earth, with modular 6A one way switch, modular front plate, suitable GI box, ceiling rose etc asrequired. The total distance from the switch box to the point will not exceed 5mtr, incase if length increases above 5 metres, the wiring shall be measured under item 2.4				
	Light point/ exhaust fan point/call bell point	no	64.00	1170.00	74880.00
2.2	Copper plug point wiring - Wiring for power plug with 2x4 sq. mm., PVC insulated, copper conductor, stranded cable (FRLS) along with 1x2.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface/recessed PVC conduit etc.as required complete.	m	40.00	272.00	10880.00

Item No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
2.3	Copper circuit wiring - Wiring for circuit with 2x2.5 sq. mm., PVC insulated, copper conductor, stranded cable along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface/recessed pvc conduit etc.as required complete.	m	225.00	222.00	49950.00
2.4	Copper circuit wiring - Wiring for circuit wiring with 2x1.5 sq. mm., PVC insulated, copper conductor, stranded cable (FRLS) along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface/recessed PVC conduit etc. as required complete.	m	50.00	202.00	10100.00
2.5	Group controlled light point with 1.5 sq. mm wire - Wiring for Group controlled light point (from one point to another point) with 1.5 sq. mm PVC insulated, (FRLS), copper conductor cable along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface / recessed PVC conduit. Note:- This item does not include the cost of MCB or 16Amp/ 6Amp one way switches. The total distance from one point to another point will not exceed 5meters. In case if the total length increases 5meters, the additional length shall be measured under item 2.4. The distance from DB to 1st point will be measured under item circuit wiring.	no	2.00	1047.00	2094.00
2.6	Supply and fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing 2/3 pin combined 6A modular socket outlet and 6 A modular switch with connection etc as required.	no	27.00	464.00	12528.00
2.7	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing & fixing of 16A modular switch with connection etc as required.	no	2.00	367.00	734.00
2.8	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing of 3pin 16A modular socket outlet with connection etc as required.	no	2.00	440.00	880.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
2.9	Supply and fixing Telephone socket outlet (RJ11) modular type with shutter in suitable size GI box with modular plate & cover in front on surface or in recess with all connection & necessary accessories as required.	no	1.00	338.00	338.00
2.10	Supply & fixing of following rigid medium gauge PVC conduit along with all accessories in surface/recess including cutting the wall and making good the same in case of recess mounting as required.				
2.10.1	20 mm	m	50.00	114.00	5700.00
2.10.2	25 mm	m	30.00	124.00	3720.00
	SUB TOTAL (PARTB)				171804.00
	PART C				
3.0	MCBs AND MCB DISTRIBUTION BOARDS				
3.1	Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper/brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required.				
3.1.1	6 way (8+18) - double cover TPN vertical DB with provision for fixing Isolator /RCBO as incomer and SP/TP MCB as outgoing (IP54) Note: There should be facility to terminate incoming cables of size upto 35 sq.mm AYFY and outgoing cables of size upto 4x16 sq.mm AYFY	no	1.00	10358.00	10358.00
3.1.2	6 way (8+18) -three phase double cover horizontal (IP 42/43)	no	1.00	2824.00	2824.00
3.2	DP enclosure for independent mounting of MCB	no	1.00	310.00	310.00
3.3	Supply and fixing of following rating residual current circuit breaker having earth leakage protection (RCCB+MCB) as per specification as required				
3.3.1	4 pole 32 amps. (415 Volts), 100mA sensitivity.	no	1.00	3707.00	3707.00
3.3.2	4 pole 32 amps. (415 Volts), 30mA sensitivity.	no	1.00	3781.00	3781.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
3.4	Supply and fixing of following rating, 10 KA, Miniature circuit breakers of the following serie in the existing enclosure as required.				
3.4.1	6A to 32A TP MCB, B/C-CURVE MCB	no	2.00	846.00	1692.00
3.4.2	6A to 32A SP MCB, B/C-CURVE MCB	no	15.00	213.00	3195.00
3.4.3	6A to 32A FP MCB, B/C-CURVE MCB	no	2.00	1192.00	2384.00
3.5	Supply and fixing of following rating, 10 KA, Miniature circuit breakers of the following series etc. as required.				
	Supply and fixing of SP MCB blanking plate	no	4.00	25.00	100.00
3.6	Supply and fixing cable end boxes for the following types of DB with necessary bolts and nuts etc. as required .				
3.6.1	Suitable for all types of vertical DB	no	1.00	916.00	916.00
3.6.2	Suitable for IP 43, 6way, TPN DB	no	1.00	1219.00	1219.00
	SUB TOTAL (PART C)				30486.00
	PART D				
4.0	LIGHT FIXTURES AND FANS				
4.1	Supply of 1x28W surface mounted decorative fluorescent lamp fixture with T5 electronic batten, including 28W T5 lamp,prewired complete with all necessary accessories as required (Sample shall be approved by the engineer in charge)	no	20.00	630.00	12600.00
4.2	Supply of 1x14W surface mounted decorative fluorescent lamp fixture with T5 electronic batten, including 14W T5 lamp,prewired complete with all necessary accessories as required (Sample shall be approved by the engineer in charge)	no	6.00	540.00	3240.00
4.3	Supply of 2 X 28 W, Compact energy saving channel suitable for FTL (T5/T8) Lamps prewired complete with all necessary accessories as required (Sample shall be approved by the engineer in charge)	no	2.00	2980.00	5960.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
4.4	Supply of 2X36, Surface/Recess mounted mirror optic luminaire with matt finish ribbed aluminium louvres, suitable for FTL (T8) lamps, prewired complete with all necessary accessories as required complete.(Sample shall be approved by the engineer in charge)	no	5.00	3630.00	18150.00
4.5	Supply, Instalation,Testing and Commissioning of Hot dip galvanised MS tubular swaged pole of total length 8.5m fabricated with following dia pipes 114.3x4.5 (Bottom), 88.9X4.05(middle), 76.1x3.25(top) and sectional length of (4+1.5+3) with a bottom plate of size 300x300x6mm with (single bracket)swan neck including bending to shape the top pipe section with over hang of 1.5 m,erecting the same in cement concrete foundation including supply and fixing 1no street light luminaire with MH lamp 1 X 250W MH (IP 65) luminaire,as required complete with IP 65 protection. (Sample shall be approved by the engineer in charge)	no	1.00	25368.00	25368.00
4.6	Supply, of the following sizes of exhaust fans in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS (Sample shall be approved by the engineer in charge)				
	250mm, single phase, light duty exhaust fan in plastic body with self opening louvers	no	6.00	1338.00	8028.00
4.7	Supply of ceiling fan , with double ball bearing, Aluminium pressure die cast body with Aluminium blades, canopies, hanging shackle, 30 cm down rod and without speed regulator suitable for 230 V/240 V 50 HZ, AC supply confirms to IS 374/1979 as required complete. (Sample shall be approved by the engineer in charge)				
	1200mm sweep	no	3.00	1734.00	5202.00
4.8	Supply of wall mounting fan of the following sizes using mounting brackets supplied along with the fan and giving connection with existing wire.				
	400mm sweep	no	13.00	2022.00	26286.00

Item No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
4.9	Installation, testing and commissioning of ceiling fan wiring the down rod of standard length (upto 30cm) with 1.5 sq.mm PVC insulated copper conductor single core cable including earthing the regulator etc. as required.	no	3.00	136.00	408.00
4.10	Supply and providing every additional length of down rod of suitable size heavy guage GI/WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required. (for extending the length of down rod for ceiling fan)	no	5.00	17.00	85.00
4.11	Installation, testing and commissioning of exhaust fan upto 450mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connections, testing & commissioning etc as required.	no	6.00	675.00	4050.00
4.12	Installation, testing & commissioning of wall mounted fan upto 400mm sweep in the wall / column making good the damage, connections, testing & commissioning etc as required.	no	13.00	183.00	2379.00
4.13	Installation, testing and commissioning of prewired flourescent fitting of all types complete with all accessories and flourescent lamps of all types directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheatherd round copper conductor flex wire or extending the original wiring and giving connections as required.	no	28.00	127.00	3556.00
4.14	Installation, testing and commissioning of prewired, flourescent / CFL light fittings of all types, with chain mounted complete with all accessories and tubes etc recess mounted to false ceiling,including connection with 1.5sqmm PVC insulated copper conductor single / three core cable etc as required.	no	5.00	176.00	880.00

Item No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
4.15	Supply and fixing of 2 module type, 5 speed electronic fan regulator 120watts rating with non metallic front plate including providing and fixing suitable size metal box in surface/ recess with all necessary accessories as required.	no	3.00	532.00	1596.00
4.16	Numbering of ceiling fan / exhaust fan/ fluorescent fitting as required.	no	41.00	29.00	1189.00
	SUB TOTAL (PART D)				118977.00
	PART E				
5.0	CABLES AND CABLING				
5.1	LT CABLING				
	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium /copper conductor cable conforming to IS 7098 (Part 1) amended upto date.				
5.1.1	3.5C 35 Sq.mm Al	m	30.00	255.00	7650.00
5.1.2	4C 16 Sq.mm Al	m	78.00	176.00	13728.00
5.1.3	4C 4 Sq.mm Al	m	110.00	116.00	12760.00
5.1.4	3C 6 Sq.mm Al	m	50.00	122.00	6100.00
5.2	Supplying and making end termination with brass compression gland and aluminium/Copper lugs for following size of XLPE insulated PVC sheathed aluminium/copper conductor cable of 1.1 kV grade as required.				
5.2.1	3.5C 35 Sq.mm Al	no	2.00	407.00	814.00
5.2.2	4C 16 Sq.mm Al	no	8.00	347.00	2776.00
5.2.3	4C 4 Sq.mm Al	no	8.00	292.00	2336.00
5.2.4	3C 6 Sq.mm Al	no	2.00	298.00	596.00
5.3	Laying & fixing of one no. XLPE insulated & PVC sheathed power or control cable of 1.1kV grade of following size in recess/ surface/ cable tray/ wall with saddles, clamps and all other accessories as required				
5.3.1	Cable size not exceeding 25Sq mm	m	60.00	95.00	5700.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
5.3.2	Above 25 Sq.mm upto 120 Sq.mm	m	10.00	145.00	1450.00
5.4	Laying of one number PVC insulated and PVC sheathed armoured power cable of 1.1kV grade fo the following sizes in ground including excavation of trench of size 35x75cm, sand cushioning up to a height of 25cm (8cm+17cm), providing protective covering with country burnt bricks laid breadth wise, refilling the trench etc. as required				
5.4.1	Cable size not exceeding 25Sq mm	m	152.00	234.00	35568.00
5.4.2	Above 25 Sq.mm upto 120 Sq.mm	m	10.00	251.00	2510.00
5.5	Laying of one number additional PVC insulated and PVC sheathed armoured power cable of 1.1KV grade of the following sizes in ground in the same trench in one tier horizontal formation including widening the trench by 20 cm,sand cushioning up to the height of 25 cm,providing protective covering with country burnt bricks laid breadth wise, refilling the trench etc. as required				
	Upto 25 Sq.mm	m	3.00	149.00	447.00
5.6	Laying of one number PVC insulated and PVC sheathed armoured power cable of 1.1kV grade fo the following sizes in the existing RCC/HUME/STONEWARE/GI/DWC pipe as required				
5.6.1	Upto 25 sq.mm	m	15.00	45.00	675.00
5.6.2	Above 25 Sq.mm upto 120 Sq.mm	m	5.00	62.00	310.00
5.7	Laying of one number PVC insualted and PVC sheathed armoured power cable of 1.1KV grade of the following sizes in the existing masonry open duct as required.				
5.7.1	Cable size not exceeding 25Sq mm	m	8.00	36.00	288.00

Item No.	Description of Items	Unit	Qty	Rate(Rs)	Amount (Rs)
5.7.2	Above 25 Sq.mm upto 400 Sq.mm	m	5.00	49.00	245.00
5.8	Supply, fabricating and installing MS items such as Tees/ angles/ channels etc. on floor/ ceiling/ wall including necessary civil work such as grouting, finishing etc. and painting with two coats of primer and two coats of synthetic enamel paint as required	kg	50.00	95.00	4750.00
5.9	Supplying, threading, laying and jointing of the following sizes of 'B' class GI pipe with all required accessories in ground in the existing trench as protective covering to earth leads.				
5.9.1	40 mm	m	10.00	259.00	2590.00
5.9.2	50 mm	m	10.00	304.00	3040.00
	SUB TOTAL PART -E				104333.00
	PART F				
6.0	EARTHING AND SAFETY EQUIPMENTS				
6.1	Supply and providing ISI pipe earthing as per IS 3043 with 2.5 meter long 40mm dia B class GI pipe with 12mm dia holes, providing GI funnel with weld mesh, fixing GI strip of size50x6mm with min. length of 20cm clamped with 50x5mm GI flat using 12x10mm GI bolt & nut at top of the GI pipe as test joint, filling around the GI pipe at a radius of 15cm with a homogeneous of charcoal, & sieved earth upto a height of 2.0 meter from the bottom, filling the rest of the portion with excavated soil including watering and ramming providing brick work (20cm) masonry at top in 1:6 cm cement mortar,plastering the inside and top of the manhole with 12mm thick 1:6 cement mortar and providing 300x300x6mm CI covering at the top.	set	2.00	5635.00	11270.00
6.2	Supplying and laying following GI or copper strip / wire at 0.6m below ground level including excavation and refilling or on surface with mounting saddles for conductor earth electrode including welding etc as required.				
6.2.1	25x3 mm copper strip tinned at the points of contacts	m	30.00	476.00	14280.00
6.2.2	3.15mm copper conductor (10 SWG)	m	60.00	83.00	4980.00
	SUB TOTAL PART F				30530.00
	GRAND TOTAL				542975.00

NATIONAL GAMES SECRETARIAT

CONSTRUCTION OF INTERNATIONAL ARCHERY ACADEMY AT PULPALLY, WAYANAD

ABSTRACT OF ESTIMATE

Tender Schedule

PART A : Civil Works	4560072.00
PART B : Electrical works	542975.00
TOTAL	5103047.00
Deduct value of market rate items	665412.00
Amount after market rate items	4437635.00
Add value of market rate items	665412.00
TOTAL PAC	5103047.00

Rupees Fifty One Lakhs Three Thousand Fourty Seven Only

I/We agree to carry out the work (1) at estimate rate

(2).....% above the estimate (in figures & words)

(3)..... % below the estimate (in figure & words)

Less cost of market rate item and L/S items.

** Tender excess /deduction will not be applicable for market rate items in the schedule of contract

Date:

Name.....

Address.....