

NATIONAL GAMES SECRETARIAT

**NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AND ALLIED BUILDING AT
POOMKODE- RECIRCULATION SYSTEM**

TENDER SCHEDULE - ABSTRACT

Description	Amount (Rs.)
Recirculation Systems	3346109.44
Electrical works	1248052.00
TOTAL	4594161.44
Deduct value of market rate items	4213050.46
Value of PWD SOR items	381110.97
Add value of market rate items	4213050.46
Grand total	4594161.00

Rupees Forty Five Lakh Ninety Four Thousand One Hundred Sixty One 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**

Signature of Contractor

Witness

Name.....

Address.....

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NAME OF WORK : CONSTRUCTION OF SWIMMING POOL AND ALLIED BUILDING AT POOMKODE- RECIRCULATION SYSTEM
TENDER SCHEDULE

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
	Design, Supply, Fabrication, Erection & Commissioning of Water Treatment and Recycling Plant comprising of filter units, Ozonator with accessories, Plumbing with specials, valves for the complete recycling system and chemical dosing system as detailed Note: Filtration system and equipment shall have 2 years replacement guarantee from the date of commissioning and the contractor shall provide required chemicals and labour for the initial testing and commissioning of the same.					
1.00	FILTERS: -					
1.01	Supplying to Site and installing in position, Bobbin Wound Filter, approx. 2000mm diameter. complete with pressure gauge panel, manual air bleeder, water drain and emptying plug, collector arms and diffuser made from unplasticized PVC and polypropelene. Filtration velocity 40m ³ /hr/m ² . Max. working pressure : 2.5 kg/cm ² . Flow rate -125m ³ /hr. The quoted rate will include the cost of all necessary control valves manufactured from PP as per DIN Standards, and connected to filters, including the required butterfly valves , non return valves, for carrying out filtration, back washing, rinsing and shutdown of filters and with required valve battery supports manufactured from electroplated galvanized steel.	no	2.00	685000.00	Rupees Six Lakh(s) Eighty Five Thousand Only	1370000
1.02	Supplying to Site and installing in position, FRP/ GRP Filter, approx.900mm diameter. complete with filter mounted multiport valve, manual air bleeder, water drain and emptying plug, collector arms and diffuser made from unplasticized PVC and polypropelene complete with first fill of filter media, ready for operation. Filtration velocity 40m ³ /hr/m ² . Max. working pressure : 2.5 kg/cm ² . Flow rate - 30m ³ /hr. (Vacuum Suction)					

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
	The quoted rate will include the cost of all necessary control valves manufactured from PP as per DIN Standards, and connected to filters, including the required butterfly valves , non return valves, for carrying out filtration, back washing, rinsing and shutdown of filters and with required valve battery supports manufactured from electroplated galvanized steel.	no	1.00	75000.00	Rupees Seventy Five Thousand Only	75000
2.00	<u>FILTER MEDIA: -</u> Supplying to Site and filling media in filter vessels as per standard specification					
	Silica Sand : 0.4-0.8mm	kg	19000.00	12.00	Rupees Twelve Only	228000
	Gravel : 1 - 2 mm	kg	5250.00	11.00	Rupees Eleven Only	57750
3.00	<u>RE-CIRCULATING PUMPS & PREFILTERS: -</u>					
3.01	Supplying to Site and fixing in position, testing and commissioning Cast Iron Pump, 1440 r.p.m., Mechanical Seal in Cast Iron, CI Impeller, IP-44 motor protection. Flowrate : 120m ³ /h @ 15mtr. head. 10 H.P., Voltage 415V / 3 phase,(2 Working + 1 Standby) with Pre-filter made in thermo-plastic with easily removable lid. Connections: As per design or 160mm,(2 working and 1 standby)	no	3.00	78900.00	Rupees Seventy Eight Thousand Nine Hundred Only	236700
3.02	Supplying to Site and fixing in position, testing and commissioning Cast Iron Pump, 1440 r.p.m., Mechanical Seal in Cast Iron, CI Impeller, IP-44 motor protection. Flowrate : 30 m ³ /h @ 15mtr. head. 3 H.P., Voltage 415V / 3 phase, (1 Working + 1 Standby) with Pre-filter made in thermo-plastic with easily removable lid. Connections: As per design, (1 working and 1 standby)	no	2.00	21750.00	Rupees Twenty One Thousand Seven Hundred Fifty Only	43500
4.00	<u>DOSING PUMPS: -</u>					
	Supplying to Site and fixing in position, Electronic Dosing Pump with IP-55 protection. Flow Rate - 6 LPH@4 Kg./cm ²	no	2.00	15000.00	Rupees Fifteen Thousand Only	30000

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
5.00	<u>CHEMICAL STORAGE TANKS: -</u> Supplying to Site and fixing in position, Made in HDPE. Capacity - 500 Liters	no	2.00	4000.00	Rupees Four Thousand Only	8000
	<u>POOL BASIN EQUIPMENT</u>					
6.00	<u>POOL DRAINS: -</u> Supplying to Site and fixing in position, Main Drains with Frame in ABS with screws Dimension 600 x 600 mm	no	1.00	38500.00	Rupees Thirty Eight Thousand Five Hundred Only	38500
7.00	<u>SUCTION INLET: -</u> Supplying to Site and fixing in position, Suction inlet in ABS with cap internal thread of 1 1/2" dia and external thread 2".	no	28.00	750.00	Rupees Seven Hundred Fifty Only	21000
8.00	<u>PVC WALL CONDUITS: -</u> Supplying to Site and fixing in position, PVC wall conduits 150mm long. Rear connection to pipe by 2" female adaptor	no	28.00	900.00	Rupees Nine Hundred Only	25200
9.00	<u>FLOOR INLETS: -</u> Supplying to Site and fixing in position, White ABS floor inlet for concrete with S.S. screws and regulable flow. Max. Flow/ inlet = 9,000l/hr	no	28.00	1250.00	Rupees One Thousand Two Hundred Fifty Only	35000
10.00	<u>OVERFLOW GUTTER DRAINS: -</u> Supplying to Site and fixing in position, Overflow gutter drain fitting 200mm dia with body and grille in ABS	no	20.00	800.00	Rupees Eight Hundred Only	16000
11.00	<u>POOL LADDER: -</u> Supplying to Site and fixing in position, Ladder in stainless steel 304 Handrails dia 43mm stainless steel non-slip safety steps, provided with electrical earthing connection and anchoring fixtures. No. of treads - 5	no	8.00	23500.00	Rupees Twenty Three Thousand Five Hundred Only	188000

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
<u>MAINTENANCE ACCESSORIES</u>						
12.00	Supplying to Site and fixing in position, Double length metal head in polished Al and chrome bronze 2" length 800mm. Trailed via cable	no.	2.00	30000.00	Rupees Thirty Thousand Only	60000
13.00	Supplying to Site and fixing in position, Extensible handles for cleaning attachments in anodized aluminium which can be adapted to the entire range of cleaning equipment, brushes, leaf skimmers and scoops. 13.00 mts. Long	no	2.00	20000.00	Rupees Twenty Thousand Only	40000
14.00	Supplying to Site and fixing in position, Handle Adaptor for matching wingnut with wishbone connection	no.	2.00	1300.00	Rupees One Thousand Three Hundred Only	2600
15.00	Supplying to Site and fixing in position, Transparent blue plastic vacuum hose 2" dia 30mtrs long including hose cuffs for connection to suction inlets.	no.	2.00	9500.00	Rupees Nine Thousand Five Hundred Only	19000
16.00	Supplying to Site and fixing in position, Deep bag net made in polypropelene and white polyester netting shark series	no.	2.00	1400.00	Rupees One Thousand Four Hundred Only	2800
17.00	Supplying to Site and fixing in position, Curved brushes made in polypropelene for pool basins and scum liners shark series	no.	2.00	1000.00	Rupees One Thousand Only	2000
18.00	Supplying to Site and fixing in position, Straight brushes made in polypropelene for pool basins and scum liners shark series	no.	2.00	950.00	Rupees Nine Hundred Fifty Only	1900
19.00	Supplying to Site and fixing in position, Algae brushes with stainless steel bristles clip type	no.	2.00	8800.00	Rupees Eight Thousand Eight Hundred Only	17600
20.00	Supplying to Site Test kit for free chlorine & pH Make: Astral, Code: 01419	no.	2.00	2400.00	Rupees Two Thousand Four Hundred Only	4800
21.00	<u>SAFETY ACCESSORIES: -</u>					
21.01	Supplying to Site and fixing in position, Life Buoys	no	7.00	18000.00	Rupees Eighteen Thousand Only	126000
21.02	Supplying to Site and fixing in position, Lifeguard Loop	no	3.00	8500.00	Rupees Eight Thousand Five Hundred Only	25500

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
22.00	<u>INTER-CONNECTING PIPING: -</u>					
22.01	Supplying to Site and fixing in position, testing and commissioning, Inter-connecting Piping in PVC (10 kg./cm2) with PVC Fittings (PN10)					
22.01.01	110mm dia	m	240.00	436.06	Rupees Four Hundred Thirty Six And Paise Six Only	104654
22.01.02	160mm dia	m	30.00	813.07	Rupees Eight Hundred Thirteen And Paise Seven Only	24392
22.01.03	200mm dia	m	30.00	1178.95	Rupees One Thousand One Hundred Seventy Eight And Paise Ninety Five Only	35369
22.01.04	315mm dia	m	110.00	2635.12	Rupees Two Thousand Six Hundred Thirty Five And Paise Twelve Only	289863
22.02	Providng and fixing of CI butterfly valve,screwed/flanged type, appropriate with PVC lines including supplying and fixing necessary tail pieces, flanges with bolts, nuts, etc. complete					
22.02.01	150 mm	no	6.00	4965.23	Rupees Four Thousand Nine Hundred Sixty Five And Paise Twenty Three Only	29791
22.02.02	200 mm	no	2.00	11741.30	Rupees Eleven Thousand Seven Hundred Forty One And Paise Thirty Only	23483
22.02.03	300 mm	no	2.00	22771.54	Rupees Twenty Two Thousand Seven Hundred Seventy One And Paise Fifty Four Only	45543
22.03	Providing and fixing CI non-return valve of approved quality, screwed and including all necessary fittings					
22.03.01	150 mm	no	6.00	6846.87	Rupees Six Thousand Eight Hundred Forty Six And Paise Eighty Seven Only	41081
22.03.02	200 mm	no	2.00	12584.68	Rupees Twelve Thousand Five Hundred Eighty Four And Paise Sixty Eight Only	25169
22.03.03	300 mm	no	2.00	25956.80	Rupees Twenty Five Thousand Nine Hundred Fifty Six And Paise Eighty Only	51914
	TOTAL FOR FILTRATION					3346109
	<u>ELECTRICAL WORKS</u>					
23.00	<u>UNDERWATER LIGHTS: -</u>					
	Supplying to Site and fixing in position, Underwater Light "STANDARD" model. Niche in polypropylene and glass fibre. ABD rim. 300W 12V Lamp with 3 mtr. Cable					
		no	36.00	11500.00	Rupees Eleven Thousand Five Hundred Only	414000

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
24.00	<u>JUNCTION BOXES: -</u> Supplying to Site and fixing in position, Deck Boxes, made in ABS, composed of 3 entries 3/4" or PG-16 coupling	no	36.00	1560.00	Rupees One Thousand Five Hundred Sixty Only	56160
25.00	<u>TRANSFORMERS: -</u> Supplying to Site and fixing in position, Step-down Transformers, 300 VA	no	36.00	6760.00	Rupees Six Thousand Seven Hundred Sixty Only	243360
26.00	<u>TRANFORMER PROTECTION BOX: -</u>	no	36.00	1320.00	Rupees One Thousand Three Hundred Twenty Only	47520
27	<u>SWIMMING POOL PANEL</u> Supply, installation, testing and commissioning of totally enclosed free standing thermoplastic poly carbonate floor mounting dust proof, shock proof, rust proof, water proof, corrosion proof and vermin proof outdoor cubicle type (swimming pool panel) suitable for 415 V, 3 phase, 50 HZ supply, complete with busbars having 100A 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 switches as per the drawing, specifications and standards of electrical inspectorate. (All the components shall be selected as per type 2 co-ordination) Incomer 100A, TPN SDFU with HRC fuse - 1no. 100A TPN busbar chamber with Aluminium busbar RYB Indicating lamps LED type -3 Nos. Voltmeter - 1 set Ammeter - 1set KWH meter - 1 No. 60/5A, 15 VA CTs for metering - 3 Nos Outgoing 32A, TPN SDFU with HRC fuse - 3nos 63A, TPN SDFU with HRC fuse - 3nos 12.5 HP Fully automatic star Delta Starter with illuminated ON-OFF push buttons (LED type) having thermal over load relay, single phasing preventer and auxillary contactors - 3 No.s					

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
	3 HP DOL Starter with illuminated ON-OFF push buttons (LED type) having thermal over load relay, single phasing preventer and auxillary contactors - 2 Nos	no	1.00	160876.00	Rupees One Lakh(s) Sixty Thousand Eight Hundred Seventy Six Only	160876
28	Supply, installation,testing and commissioning of DOL starter for 0.5-3 HP motors with illuminated ON-OFF push buttons (LED type) having suitably rated thermal over load relay and single phasing preventer with auxillary contactors	no	6.00	2440.00	Rupees Two Thousand Four Hundred Forty Only	14640
29	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.					
	8 way (8+24) - outdoor type(IP 54) double cover TPN vertical	no	2.00	10984.00	Rupees Ten Thousand Nine Hundred Eighty Four Only	21968
30	Supply and installation of totally enclosed dust and vermin proof outdoor type IP65 polycarbonate emergency ON-OFF Push button station mounted on suitable MS angle for 230V, 1phase, 50Hz supply with accessories as required. Necessary foundation for MS angle shall also be considered if mounted directly in ground.	no	6.00	2278.00	Rupees Two Thousand Two Hundred Seventy Eight Only	13668
31	Supply and fixing of following rating residual current circuit breaker having earth leakage protection (RCBO) as per specification as required					
31.1	4 pole 63 amps. (415 Volts), 100mA sensitivity.	no	1.00	4006.00	Rupees Four Thousand Six Only	4006
31.2	4 pole 32 amps. (415 Volts), 30mA sensitivity.	no	1.00	2958.00	Rupees Two Thousand Nine Hundred Fifty Eight Only	2958
32	Supply and fixing of following rating, 10 KA, Miniature circuit breakers of the following series as required.					
32.1	6A to 32A, SP, B/C-CURVE	no	10.00	213.00	Rupees Two Hundred Thirteen Only	2130
32.2	6 A to 32 A TP MCB, C-CURVE MCB	no	10.00	846.00	Rupees Eight Hundred Forty Six Only	8460

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
33	CABLING AND EARTHING FOR SWIMMING POOL PUMPS					
33.01	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.					
33.01.01	4C 16 sqmm Al	m	100.00	176.00	Rupees One Hundred Seventy Six Only	17600
33.01.02	3C 10 sqmm Al	m	110.00	122.00	Rupees One Hundred Twenty Two Only	13420
33.01.03	3C 4 sqmm Al	m	200.00	190.00	Rupees One Hundred Ninety Only	38000
33.01.04	3C 2.5 sqmm Cu	no	150.00	164.00	Rupees One Hundred Sixty Four Only	24600
33.02	Supplying and making end termination with brass compression gland and aluminium/Copper lugs for following size of XLPE insulated PVC sheathed aluminium conductor cable of 1.1 kV grade as required.					
33.02.01	4C 16 sqmm Al	no	4.00	347.00	Rupees Three Hundred Forty Seven Only	1388
33.02.02	3C 10 sqmm Al	no	6.00	309.00	Rupees Three Hundred Nine Only	1854
33.02.03	3C 4 sqmm Al	no	16.00	290.00	Rupees Two Hundred Ninety Only	4640
33.02.04	3C 2.5 sqmm Cu	no	12.00	282.00	Rupees Two Hundred Eighty Two Only	3384
33.03	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 Cable size not exceeding 25Sq mm	m	370.00	95.00	Rupees Ninety Five Only	35150
33.04	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 Cable size not exceeding 25Sq mm	m	190.00	234.00	Rupees Two Hundred Thirty Four Only	44460
33.05	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	100.00	96.00	Rupees Ninety Six Only	9600

SI No.	Description	Unit	Quantity	Rate (in figures)	Rate (in words)	Amount(Rs)
33.06	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 size 50x6mm 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 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.	no	4.00	5635.00	Rupees Five Thousand Six Hundred Thirty Five Only	22540
33.07	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.					
33.07.01	25x3 mm copper strip tinned at the points of contacts	m	30.00	476.00	Rupees Four Hundred Seventy Six Only	14280
33.07.02	3.15mm copper conductor (10 SWG)	m	330.00	83.00	Rupees Eighty Three Only	27390
TOTAL						1248052
GRAND TOTAL						4594161