De	velopment of Mini Sports Complex at Shakti nagar, J	abalpur (M.P.)
	SUMMARY SHEET	
Sr No.	Item Description	AMOUNT
1	JOGGERS TRACK	20,11,839.37
2	BASKET BALL COURT	18,48,713.62
3	VOLLEY BALL COURT	17,71,242.10
4	SWIMMING POOL	69,43,802.35
5	BOUNDARY WALL	35,31,325.54
6	LANDSCAPE	11,06,590.50
7	GYMNASIUM BUILDING	1,76,10,757.30
	TOTAL CIVIL WORKS	34824270.79
10	ELECTRICITY & OTHER ALLIED WORKS @ 10%	3482427.08
	TOTAL	38306697.86

ESTIMATE OF JOGGERS TRACK

	ESTIMATE OF JOGGERS TRACK							
SN	SOR item	DESCRIPTIONS	QTY	UNIT	RATE	Reduced Rate as per Order	AMOUNT	
1	2.28.1 UADD	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m. All kinds of soil.	1117.50	100 Sqm	663.00	596.70	6668.12	
2	4.1 UADD	Construction of Granular Sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by in placed method at OMC, and compacting with vibratory rollar to achive the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	335.25	Cum	600.00	540.00	181035.00	
3	Vol III 6.1	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.	47.00	Cum	2715.00	2443.50	114844.50	
5	Vol III 5.15	Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine-grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 1000C, protruding 1 mm to 4 mm over mastic surface complete in all respect and as per relevant clauses of section-515.	350.00	SqM	503.00	452.70	158445.00	
6	11.49	Providing and laying at or near ground level factory made kerb stone of M- 25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement: 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	40.00	CuM	5098.00	4588.20	183528.00	

		Total					20,11,839.37
9	10.34	Providing and fixing G.I. chain link fabric fencing of required width in mesh size25x25mm made of G.I.wire of dia.3mm including strengthening with 3mm dia.wire or nuts,bolts and washers as required complete as per the direction of Engineer-in-charge.	500.00	Sqm	553.00	497.70	248850.00
8	NON SOR	Providing and fixing peddler light@3.00 c/c	106.25	No.	350.00	315.00	33468.75
7	NON SOR	Supply and installation of Play flex EPDM rubberized flooring in insitu form with top layer of 6mm 100% EPDM (Ethylene Propylene Diemonomer) and bottom layer of 9mm Styrene-Butadiene Rubber (SBR). The EPDM granules ranging from 1mm to 4mm should have granules distribution such as <1mm – 2%, <2mm ->1mm – 10-20%, <3mm ->2mm – 30-40%, <4mm->3mm – 38-48% >4mm – 3%. The EPDM granules should have specific gravity – 1.5+/-0.0, Hardness (Shore A) – 62-67, Density – 700-730 kg/cu.mtr, Tensile strength > 4.0 MPa, Elongation @ BREAK > 400% and curing system – Peroxide cured. The SBR granules should be primarily in the range of 1-4mm size and to be used primarily to create cushion effect. PU binder quality should be from company like BASF for insitu application to be done. The flooring work should have material defects warranty of 3 years.	350.00	SqM	3230.00	3100.00	1085000.00

		BASKET BALL COUR	Г				
SN	SOR item	DESCRIPTIONS	QTY	UNIT	RATE	Reduced Rate as per Order	AMOUNT
			QIY	UNII	KAIE	Order	AMOUNT
1	4.1	Construction of Granular Sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by in placed method at OMC, and compacting with vibratory rollar to achive the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	272.30	Cum	600.00	540.00	147039.30
2	Vol III 6.1	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.	90.72	Cum	2715.00	2443.50	221674.32
3	Non Sor	Supply and installation of Suspended structure Interlocking modular all weather non toxic Poly Proplene tiles having minimal maintence, ecofrendly, 100% recyclable material. Each tile should have thickness of 15.8mm, shock absorption 28%, weight not less than 3.82 kg per sqm provided with side edges. Size of tile 304.8mm X 304.8mm.	500.00	m.sq	2660.00	2660.00	1330000.00
4	Non SOR	Providing and fixing net postFixed Basketball Court- Providing fixed basketball outdoor posts with 3.2 mtr. umbrella projection with 200 mm square mild steel pipe powder coated of approved make with front side safety padding of 5.5" thick foam blue colour and 23 mm transparent outdoor acrylic board 180x105x 25 mm of approved make with international standard double die frame aluminium anodized/steel powder coated with built in Pair 196950.00 brackets for mounting including dunking rim solid 20mm thick with three spring mechanism box packing of approved make with nets of regulation size 45 cm, cup shape of heavy duty nylon silky mix white coloured cord. (The cost of earthwork, concrete, labour for installation of the posts to be included in the rate). Including Marking the required lines as per specifications of Sports Authority of India	2.00	No	75000.00	75000.00	150000.00
				l	I	Total	18,48,713.62

		CONSTRUCTION OF VOLL	EY BALL (OURT			
SN	SOR item	DESCRIPTIONS	QTY	UNIT	RATE	Reduced Rate as per Order	AMOUNT
1	Vol III 4.1	Construction of Granular Sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by in placed method at OMC, and compacting with vibratory rollar to achive the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	323.00	Cum	600.00	540.00	174420.00
2	6.1	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.	64.60	Cum	2715.00	2443.50	157850.10
3	Vol III 5.15	Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine-grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 1000C, protruding 1 mm to 4 mm over mastic surface complete in all respect and as per relevant clauses of section-	360.00	SqM		452.70	162972.00
4	NON SOR	Supply and installation of Play flex EPDM rubberized flooring in insitu form with top layer of 6mm 100% EPDM (Ethylene Propylene Diemonomer) and bottom layer of 9mm Styrene-Butadiene Rubber (SBR). The EPDM granules ranging from 1mm to 4mm should have granules distribution such as <1mm – 2%, <2mm ->1mm – 10-20%, <3mm->2mm – 30-40%, <4mm->3mm – 38-48% >4mm – 3%. The EPDM granules should have specific gravity – 1.5+/-0.0, Hardness (Shore A) – 62-67, Density – 700-730 kg/cu.mtr, Tensile strength > 4.0 MPa, Elongation @ BREAK > 400% and curing system – Peroxide cured. The SBR granules should be primarily in the range of 1-4mm size and to be used primarily to create cushion effect. PU binder quality should be from company like BASF for insitu application to be done. The flooring work should have material defects warranty of 3 years.	360.00	SqM	3230.00	3100.00	1116000.00
5	NoN SOR	Supply & Installation of Volleyball Poles with Net including the Marking the required lines as per specifications of Sports Authority of India	2.00	No	160000.00	80000.00	160000.00
						Total	17,71,242.10

	<u> </u>	1)L T	IMING POC	CONSTRUCTION OF SWIN		
AMOUNT	Reduced Rate as per Order	RATE	UNIT	QTY	DESCRIPTIONS	SOR item	SN
95647.5	98.10	109.00	CuM	975.00	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil.	2.6.1	1
82620.0	91.80	102.00	cum	900.00	Disposal of Excavated Earth Loading and unloading of stone boulder / stone aggregates / sand / kanker / moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)	1.1.v	2
53662.5	477.00	530.00	Cum	112.50	Construction of Granular Sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by in placed method at OMC, and compacting with vibratory rollar to achive the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	4.1 UADD	2
350493.7	3738.60	4154.00	Cum	93.75	Providing and laying Cement Concrete grade M-15 Nominal mix with 20mm graded crushed stone aggregate, laid with a fixed form or alip form paver with spreading the concrete by shovels mixing shall be in mechanical mixer, compacting by use of pin plate and screed vibrators including form work by strong steel.	4.1.2	4
172710.0	4545.00	5050.00	Cum	38.00	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plint hand string courses, fillets, columns, pillars, piers, abutments, posts and struts etc.upto floor two level excluding cost of centering, shuttering, finishing and reinforcement. Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.	5.2.1	5
319140.0	4255.20	4728.00	Cum	75.00	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.	5.1.1	6
					Centering and shuttering including strutting, propping etc.and removal of form for :	20.1	7
1987.2	124.20	138.00	sqm	16.00		20.1	a
66873.6	194.40	216.00	sqm	344.00	Foundations, footings, bases of columns, etc. For mass concrete. Walls (any thickness) including attached pilasters, butteresses,		b
958014.0	54.00	60.00	KG	17741.00	plinth and string courses etc Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete. Hot rolled deformed bars.		
						5.2	8
					Brick work with modular fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, class designation 100 average compressive strength in superstructure above plinth level up to floor 2 level including the cost of scaffolding: Cement mortar 1:6 (1 cement: 6 coarse sand)	6.27.2 UADD	9
141876.0	3546.90	3941.00	cum	40.00			<i></i>
257058.9	723.60	804.00	sqm	355.25	Providing and laying Ceramic glazed floor tiles 300x300 mm (9 to 10 mm thick) 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: 4 Coarse sand) including pointing the joints with white cement and matching airment etc. complete	14 25	10
					on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand)	11.35	10

11	11.34	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (6 to 7mm thick) 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 12 mm 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. Providing and fixing 10mm thick acid and or alkali resistant tiles of approved make and colour using acid and or alkali resisting mortar bedding and joints filled with acid and or alkali resisting	156.00		686.00	617.40 970.20	96314.40 291060.00
12	11.21.1.1.	cement as per IS : 4457 complete as per the direction of Engineer- in- Charge.					
13		Providing and Fixing PVC Grating as per the direction of engineer in charge	100.00	RMT	300.00	300.00	30000.00
17	22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage.					
	22.23.1	For vertical surface two coats @0.70 kg per sqm		Sq.m		468.1	93620.00
	22.23.2.	For horizontal surface one coat @1.10 kg per sqm	250	Sq.m		362.35	90587.50
		Total					31,01,665.35

PLUMBING AND SANITARY WORKS OF SWIMMIMMG POOL

No	Description	Qty	Unit	Unit Rate	Total
140	WATER TREATMENT	Qty	Oilit	In Rs.	In Rs.
1	FILTRATION PLANT			111 1/3.	III NS.
-					
	Totally anticorrossive bobbin wound sand filter 2000 mm dia manufactured with fibre glass and polyester resin, fitted with collector arms and diffuser made from unplasticised PVC and Polypropelene. Filter media height -1000mm and capable of accomodating flow rate of 93.6 M³/hr @ 30m³/hr/m² Complete with lid in polyester resin and fibre glass for media charging, 2 No. pressure Gauges & associated tubing, manual air release valve, purge cap for sand discharge and 140 PVC flanged connection for inlet and outlet.	1	nos.	685000	685000.00
2	5 WAY VALVE BATTERY				
	160 mm Valve battery built in high pressure PVC piping PN 10 with flange connections to filters according to DIN standards. Provided with 5 No. 160 mm Butterfly valves also in CI Body, SGI disc & Nitrile seat. Supports made of powder coated Msteel with clamps and fixing screws	1	nos.	115000	115000.00
3	FILTER MEDIA				
	Quartz Filter Media mesh size 16 /32	10000	kg	12	120000.00
	Quartz Filter Media mesh size 8 / 16	5000	kg	12	60000.00
4	RECIRCULATING PUMPS				
	Horizontal monobloc recirculation pumps with body, pot type prefilter, and support in Cast iron,impeller in Bronze, shaft in SS, mechanical seal and prefilter basket in AISI-316 stainless steel.and with motor -3000rpm/1500 rpm, 3 PH, 400/400V, 10 HP, 50HZ, protection IP-54.				
-	Flow: 115 M³/hr @ 10.0m head (3 No. W + 1 No. SB)	2	nos.	125000	250000.00
5	ELECTRICAL CONTROL PANEL FOR PUMPS				
	mounted to the foundation. The control panel should be suitable for 440 volts, 50 Hz, 4 wire supply. Quoted price shall include with 25mm thick rubber mats, wiring, cabling, control wiring and copper grounding from control panel to various equipment like recirculation pump, dosing equipment, aggitator etc. The panel shall have compartment for bus bar and cable alleys. The panel should be in accordance with the specifications. Providing and fixing necessary cables, internal wiring for all equipments and power cabling for motors, dosing systems, controller etc.Control panel should consists of Ameter, Volt meter, Selector Switch, Single phase preventor etc.Cost should be included in the cost of M.C.C. etc.complete.	1	nos.	85000	85000.00
6	AUTOMATIC pH / REDOX CONTROLLER The Optima series, featuring all-new power supply technology available from 90V ac up to 265 V ac and 50-60Hz, guarantees unprecedented dosing precision and adaptability. With built-in pH/Redox control. pH/Redox instrument. Automatic calibration: Calibration by simply pressing a key, with the possiblity of controlling the level of sensor efficiency Available functions: - 90-265 VAC 50/60 Hz power supply - Manual compensation of temperature for pH or automatic compensation by means of PT100 4.20mA output for graphic recorder or transmitting the measured value Level alarm with pump disconnection or simple warning of lack of product by means of the alarm relay Set point deviation alarm, programmable for the entire measurement interval - O.F.A. time (Over Feed Alarm) to prevent the dosing pump from infecting product if the sensor malfunctions Maximum dosing pump flow rate for preventing overdosing. Password for protecting programmed data Available alarms.	1	nos.	79092	79092.00

7	pH Electrode	1	nos.	10980	10980
8	Rx Electrode	1	nos.	10980	10980
	100.000			10000	20300
9	Electrode Holder	2	nos.	10980	21960
10	CHEMICAL SOLUTION PREPARATION TANK Semi transparent FRP tank with external scale marked withlevels , capacity of tank				
	500lts.(1 no. each for chlorine and Acid/ Alum)	2	nos.	6500	13000
11	CHEMICAL SOLUTION PREPARATION TANK				
	Semi transparent PVC tank with external scale marked withlevels , capacity of tank 100lts.	1	nos.	2450	2450
12	MOTRISED STIRRING SYSTEM				
	Agitator for easy installation with MS powder coated base stand over solution Preparation tank, provided with SS 316 rod and propellor arms inSS 316, length of stirring rod 900mm. Agitator should be directly driven by 0.5 HP single phase air cooled motor, body in CI, driven at 1500 rpm,IP 55 protection & heavy duty anti friction deep grooved shielded ball bearings	2	nos.	12500	25000
	POOL BASIN ITEMS				
	TOOL BASIN TIEWS				
13	MAIN DRAINS GRILL				
	Main Drain Grill of size 600 mm x 600 mm SS 304 with support frame & fixing screws. Max. Recommended flow 110 m3/hr	1	Nos	26500	26500
14	BOTTOM INLETS				
	White ABS plastic bottom inlet for concrete with S.S. screws and regulable flow with				
	2" ext. thread. Flow/ inlet @ 7000 l/hr.Max Flow= 14000 l/hr	18	Nos	1150	20700
15	PLUMBING WALL CONNECTORS				
	Plumbing Wall connectors for pool inlet lines , 1 Meter long in PVC pipe PN 10 of size 160 mm provided with integral no leak MS Slipon flanges, GI nut Bolts, Rubber Gasket, end caps	10	Nos	1750	17500
	CONTROL AND REGULATION EQUIPMENT FOR MAIN POOL,				
	All valves shall be in UPVC with PN10 rating and EPDM seat.				
16	UPVC Ball Valves-32 mm	5	Nos	2450	12250
17	UPVC Ball Valves-63 mm	4	Nos	4500	18000
1/	OFVC Ball Valves-03 Hilli	4	1103	4300	18000
18	CI Flap type Non Return Valves -160mm	5	Nos	18500	92500
19	CI Butterfly Valves with SS wettable parts Dia -160mm	15	Nos	16150	242250
20	Valve Assembly Kit for Dia -160mm Butterfly Valve / NRV in Powder Coated MS Slipon Flanges, GI Nut Bolts with washers, Rubber Gasket etc. complete	15	Nos	6500	97500
21	CI Foot Valves Dia -110	4	Nos	6500	26000
22	CI Sluice Valves Dia -160 mm with GI Operating Key assambly	2	Nos	37500	75000
	<u>INTERCONNECTING PIPING</u>				
23	Connecting Header				
	Connection Header in SS provided with 1 No. 25 mm threaded nipple for doser connection & Required no. of connection 160 mm end Nozzles & MS powder coated 160 mm slipon flange to be connected with filtration plumbing	2	Nos	47500	95000

Return Process Proce			1			
The various pipe sizes shall be designed to achieve the following bedeetines of flow as place turn (size 1.18 - 2.14)/sc. c) Overflow Line : 0.6 -0.8 m/sec.		Supply and installation of all interconnecting pipes conforming IS 4985:2000 and				
the following velocities of flow a) Return line: 18-2.1-m/sec. b) Suction Line: 18-2.1-m/sec. c) Overflow Line: 0.6-0.8m/sec. c) Cubte for the supply and installation for the following pipe sizes: (in meters) Line: 18-2.1-m/sec. c) Line: 1		fittings and valves in PVC PN 10 / PN 6 / PN 2.5				
a) Return Line: 1.8 - 2.1 m/sc. c) Overflow Line: 0.6 - 0.8 m/sc. c) Coverflow Line: 0.7		The various pipe sizes shall be designed to achieve				
b) Suction Line: 1: 2-1.5 m/sec. C) Overflow ties: 0.6 -0.8 m/sec. C) Oute for the supply and installation for the following pipe sizes: (in meters) Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, tees, flanges, Ci nut bolts, rubber gaskets and other Estimate to include the elbows, 1200 more gaskets and other Estimate to include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 1200 more gaskets and other Estimate include the elbows, 120		the following velocities of flow				
C) Overflow Line : 0.6-0.8m/sec. Quote for the supply and insaliation for the following pipes sizes: (in meters) stimate to include the elbows, tees, flanges, GI nut bolts, rubber gaskets and other 24 63 mm dia. (PN 10) 100 m 1550 12000000 125 150 mm dia. (PN 10) 1120 m 1550 12000000 125 150 mm dia. (PN 10) 120 m 1550 12000000 125 150 mm dia. (PN 10) 120 m 1550 114000000 125 150 mm dia. (PN 10) 120 m 1550 114000000 125 150 mm dia. (PN 10) 1500 1250 mm 1550 114000000 125 150 mm 1550 1140000000 125 150 mm 1550 115000 125 15000000 125 150000000000		a) Return Line: 1.8 - 2.1m/sec.				
Quote for the supply and installation for the following pipe sizes (in maters)		b) Suction Line: 1.2-1.5m/sec.				
Pipes sizes (In meters) Estimate to include the elbows, tees, flanges, Gl nut bolts, rubber gaskets and other		c) Overflow Line: 0.6-0.8m/sec.				
### ### ### ### ### ### ### ### ### ##		Quote for the supply and installation for the following				
24 Samm dia_(PN_10) 100 m 455 455000.05 150 mm dia_(PN_10) 120 m 1350 152000.05 150 mm dia_(PN_10) 120 m 950 114000.05 150 mm dia_(PN_10) 235 mm 3850 96250.05 150 mm dia_(PN_10) 235 mm 3850 32500.05 150 mm dia_(PN_10) 235 mm 3350 32500.05 150 mm dia_(PN_10) 235 mm 3850		pipe sizes :(In meters)				
24 Samm dia_(PN_10) 100 m 455 455000.05 150 mm dia_(PN_10) 120 m 1350 152000.05 150 mm dia_(PN_10) 120 m 950 114000.05 150 mm dia_(PN_10) 235 mm 3850 96250.05 150 mm dia_(PN_10) 235 mm 3850 32500.05 150 mm dia_(PN_10) 235 mm 3350 32500.05 150 mm dia_(PN_10) 235 mm 3850		Estimate to include the elbows, tees, flanges, GI nut bolts, rubber gaskets and other				
120 mm dia. (PN 10) 120 mm 1350 12000000 mm 1350 136000000 mm 1350 136000000 mm 1350 136000000 mm 1350 136000000 mm 1350 136000000000000000000000000000000000000	24		100	m	455	45500.00
1400.000		,				
ACCESSORIES 25 m 3850 95250.00		· ·				
ACCESSORIES						
UNDERWATER ILLUMINATION FOR MAIN POOL		313 mm dia. (FN 2.3)	23	111	3830	30230.00
28 300 W / 12 V Underwater Lights		ACCESSORIES				
STANDARD* model Underwater Lights. Niche in polypropylene and glass fibre. 300W 12V Lamp. With 3 mt. cable and in ABS. rim. 20 nos 11500 230000.00		UNDERWATER ILLUMINATION FOR MAIN POOL				
STANDARD* model Underwater Lights. Niche in polypropylene and glass fibre. 300W 12V Lamp. With 3 mt. cable and in ABS. rim. 20 nos 11500 230000.00	28	300 W / 12 V Underwater Lights				
With 3 mt. cable and in ABS. rim. 29 Junction Boxes Junction Boxes, made in ABS, composed of 3 entries 3/4" or PG-16 coupling 20 nos. 2250 45000.00 30 Flexible Cable Conduits Cable Conduit Hose, Flexible 1 mt. long conduit for conn.light to junction box. 3/4" 20 nos 475 9500.00 31 Step Down Transformers 30 VA , 240 V / 12 VStep down transformer ,isolation type with IP -56 protection 20 nos. 6750 135000.00 32 Transformers Panel - Cubical powder coated Transformer Panel in CRCA sheet with incomming 2 pole MCB capable for mounting 10 no. transformers, complete in all respect 4 nos. 23000 92000.00 33 OVER FLOW GRATINGS Over Flow Grating in UV stabilized Polypropelene. Ht. 22mm, width: 295mm 40 m 1200 48000.00 34 SS LEADER SS 316 SS Leader in 43 mm / 14 G Pipe with Flat Step Trades 1 No. 21500 21500.00 35 Step Ladder 1 No. 24500 24500.00 36 Step Ladder 1 No. 24500 24500.00 37 SUCCIM HEAD SS 304 Metalic vacuum head , 900 mm long , PP wheel mounted.spring mounted brush at bottom of head, toeabe with nylon rope , 2" connection for hose 1 No. 31500 32500.00 37 SUCCIM HEAD STATE TO M 1.5 Sq. mm 2 core PVC insulated Cu Flexible cable 1 No. 32500 32500.00 38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 16500.00						
With 3 mt. cable and in ABS. rim. 29 Junction Boxes Junction Boxes, made in ABS, composed of 3 entries 3/4" or PG-16 coupling 20 nos. 2250 45000.00 30 Flexible Cable Conduits Cable Conduit Hose, Flexible 1 mt. long conduit for conn.light to junction box. 3/4" 20 nos 475 9500.00 31 Step Down Transformers 30 VA , 240 V / 12 VStep down transformer ,isolation type with IP -56 protection 20 nos. 6750 135000.00 32 Transformers Panel - Cubical powder coated Transformer Panel in CRCA sheet with incomming 2 pole MCB capable for mounting 10 no. transformers, complete in all respect 4 nos. 23000 92000.00 33 OVER FLOW GRATINGS Over Flow Grating in UV stabilized Polypropelene. Ht. 22mm, width: 295mm 40 m 1200 48000.00 34 SS LEADER SS 316 SS Leader in 43 mm / 14 G Pipe with Flat Step Trades 1 No. 21500 21500.00 35 Step Ladder 1 No. 24500 24500.00 36 Step Ladder 1 No. 24500 24500.00 37 SUCCIM HEAD SS 304 Metalic vacuum head , 900 mm long , PP wheel mounted.spring mounted brush at bottom of head, toeabe with nylon rope , 2" connection for hose 1 No. 31500 32500.00 37 SUCCIM HEAD STATE TO M 1.5 Sq. mm 2 core PVC insulated Cu Flexible cable 1 No. 32500 32500.00 38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 16500.00		polypropylene and glass fibre. 300W 12V Lamp.	20	nos	11500	230000.00
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Trolley mounted 2 HP Kirloskar make Self priming pump with LNT 2 HP DOL Starter, 100 M 1.5 Sq. mm 2 core PVC insulated Cu Flexible cable 1 No. 32500 32500.00 37 SUCTION HOSE Extra Flexible plastic vacuum hose 2" dia, 30mtrs long . 1 No. 3950 3950.00 38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 1650.00		SS 304 Metalic vacuum head , 900 mm long , PP wheel mounted, spring mounted	1	No.	31500	31500.00
Trolley mounted 2 HP Kirloskar make Self priming pump with LNT 2 HP DOL Starter, 100 M 1.5 Sq. mm 2 core PVC insulated Cu Flexible cable 1 No. 32500 32500.00 37 SUCTION HOSE Extra Flexible plastic vacuum hose 2" dia, 30mtrs long . 1 No. 3950 3950.00 38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 1650.00						
Starter, 100 M 1.5 Sq. mm 2 core PVC insulated Cu Flexible cable 1 No. 32500 32500.00 37 SUCTION HOSE Extra Flexible plastic vacuum hose 2" dia, 30mtrs long . 1 No. 3950 3950.00 38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 1650.00	36	·				
Extra Flexible plastic vacuum hose 2" dia, 30mtrs long . 1 No. 3950 3950.00 38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 1650.00			1	No.	32500	32500.00
Extra Flexible plastic vacuum hose 2" dia, 30mtrs long . 1 No. 3950 3950.00 38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 1650.00	37	SUCTION HOSE				
38 DEEP NET Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 1650.00			1	Nο	3950	3950.00
Deep bag net made in polypropelene and white polyester netting with wishbone 1 No. 1650 1650.00		30, 30, 30, 30, 30, 30, 30, 30, 30, 30,		110.	3330	2330.00
1 No.1 1650 1650.00	38					
			1	No.	1650	1650.00

39	SHALLOW NET				
	Surface net made in polypropelene and white polyester netting with wishbone	1	No.	1250	1250.00
	connection	_	140.	1250	1230.00
40	Curved brush made in polypropelene for pool basins and scum liners with			4650	4650.00
	wishbone connection.	1	No.	1650	1650.00
41	TELESCOPIC HANDLE				
71	Anodized aluminium, which can be adopted to the straight brush with wishbone				
	connection and 9 m. Long	1	No.	11750	11750.00
42	Tank lik for was dual ablasia 2 mll	1	No.	475	475.00
42	Test kit for residual chlorine & pH	1	NO.	4/5	475.00
43	Cabling for the Underwater Lights considering the voltage drop from				
	the transformer to the light source				
	Cables shall be flexible, 2 core, copper conductor. Enclosed in conduits				
	Voltage at the light source shall be between 11.8V-12 V				
	a) Cable Size : Cu cable 6 sq.mm / 2 core Flexible	1000	m	171	171000.00
	PVC Conduit pipe sizes :(In meters)				
	Estimate to include the elbows, tees , flanges, CLAMPS and other fittings,				
	appropriate supports should be provided to plumbing for all heights & depths				-
	32 mm dia. (PN 6)	1000	m	85	85000.00
					_
	INSTALLATION & COMMISIONING				
44	Installation and commissioning of the above items in place	1	LS	250000	250000.00
	TOTAL				38,42,137.00

ESTIMATE OF BOUNDARY WALL

S. No	SOR Item No.	Item of Work	Quantity	Unit	10% Reduced Rate as per UADD Orders	Reduced Amount in Rs.
	Excavation					
	2.8.1, Vol. 2, Pg 16	Earth work in excavation by mechanical means (Hydraulic avator) / manual means in foundation enches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus xcavated				
		soil as directed, within a lead of 50 m2.8.1 All kinds of soil				
		For pile cap, (.65 x .65 x .35 m)	82.37			
		To the sap (to kies kies in)	82.37	CuM	116.10	9562.58
	Concrete					
	4.1.2, Vol. 2, Pg 34	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level 4.1.2 Cement concrete grade M-15 with 20 mm max.size of stone agg.				
		For pile cap Base	10.98		2720.50	44057.04
		Total	10.98	CuM	3738.60	41057.31
3	16.9, Vol. 2, Pg 187	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 20 in cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).				
		(16.9.1) 300 mm dia piles	760.00			
		Total	760.00	Rm	1048.50	796860.00
4	5.1, Vol. 2, Pg 46	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level: 5.1.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Pile Cap	22.48			
		Column	3.99	<u> </u>	4055.00	440000 00
5	5.2.1, Vol. 2, Pg 46	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor two level excluding cost of centering, shuttering, finishing and reinfor cement 5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate	26.47	Cum	4255.20	112622.38
		Plinth beam				
		Boundry wall Periphery beam	31.46			
		Column above plinth Total	33.52 64.98	Cum	4545.00	295334.10
	Reinforcement	Total	04.38	Cuiii	4343.00	25554.10
6	5.20.6, Vol. 2, Pg 49	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.				
		5.20.6 Thermo-Mechanically Treated bars.				

14	13.11, Vol. 2, Pg 157	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a				
14		18 mm cement plaster in two coats under layer 12 mm thick				
	Cement Flaster					
	Cement Plaster					
l			54.23	CuM	3546.90	192348.22
		1:6 (1 cement : 6 coarse sand)	54.23	Cutt	2545.00	103340 33
		conforming to IS:12894-2002, class designation 100 average compressive strength in superstructure above plinth level up to floor 2 level including the cost of scaffolding: Cement mortar				
13	6.27.2 UADD	Brick work with modular fly ash lime bricks (FALG Bricks)				
	D : 1 ::: 1					
		Total	378.48	Sqm	182.70	69148.30
		Boundry wall Periphery beam	378.48			
		Beam				
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.				
12	20.1.5, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for				
		Column above plinth Total	414.96	Sqm	253.80	105316.85
		Column shove plinth	49.40 414.96			
	209	Columns, Pillars, Piers, Abutments, Posts, Struts.	40.40			
11	20.1.6, Vol. 2, Pg	Centering & shuttering propping and removal of form for		-		
		Total	136.19	Sqm	124.20	16915.05
		concrete. PILE CAP	136.19			
	209	20.1.1 Foundations, footings, bases of columns, etc. For mass				
10	Centering & Shut 20.1.1, Vol. 2, Pg	Centering & shuttering propping and removal of form for				
	Cantaring & Chut	toring	6746.74	cement	54.90	370395.93
				kg		
		Nos of Bag@410 kg or 8.2bags per cum	J	Per 50		
		DPC (5% of Beam) Volume of Concrete	4.84 822.77			
		in concrete upto plinth measurement as above) Peripheri Beam	31.46			
		in concrete upto plinth Measurement as above)	786.47			
	36	cement concrete work @ 1 kg per 50kg of cement.				
9	4.11. Vol. 2, Pg	Extra for providing and mixing water proofing material in	50.04	Sqiii	203.70	1,057.05
	1	Boundry wall Periphery beam Total	96.84 96.84	Sqm	203.40	19697.09
8	36	mm maximum size of stone aggregate	00.00			
	4.10. Vol. 2, Pg	Providing and laying damp-proof course 50mm thick with cement Cement concrete grade M-15 (Nominal Mix) with 20				
		Total	44.92	CuM	53.10	2385.04
		Deduction for foundation concrete (volume from concrete item above)	-37.45			
		For foundation (volume of earth from excavation item)	82.37			
	19	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 upto 1.5 m.				
7	2.25, Vol. 2, Pg	Filling by available excavated earth (excluding rock) in trenches,				
	Back Filling & Wa					
		Total	15270.49	Kg	54.00	824606.46
		Reinforcement for R.C.C. work @100kg/cum of beam concrete	3146.40			
		concrete	4021.92			
		concrete Reinforcement for R.C.C. work @120kg/cum of column	478.80			
		concrete Reinforcement for R.C.C. work @120kg/cum of column	3596.32			
ļl		Reinforcement for R.C.C. work @160kg/cum of foundation				
			4027.05			

		On Vertical faces in following araes				
		0.000	724.19			
		Column sides	414.96			
		Total	1139.15	Sqm	134.10	152759.85
	Stone Work					
15	11.29 Vol.2, Pg	40 mm thick fine dressed stone flooring over 20 mm (average)				
	130	thick base of cement mortar 1:5 (1 cement : 5 coarse sand)				
		including pointing with cement mortar 1:2 (1 cement : 2 stone				
		dust) with an admixture of pigment to match the shade of				
		stone. (minimum size of kota stone 0.25 m)				
		Boundry wall top	138.94			
		Boundry wall column top	27.36			
		Total	166.30	SqM	429.30	71393.96
16	10.25 Vol. 2, Pg	Steel work welded in built up sections/ framed work including				
	116	cutting, hoisting, fixing in position and applying a priming coat				
		of approved steel primer using structural steel etc. as required.				
		10.25.2 In gratings, frames, guard bar, ladder, railings,				
		brackets, gates and similar works.				
		Gate No-1,2 &3				
		Gate (area 5.814 sqm)	17.44			
		Total (sqm)	17.44			
		(A)Weight (37.9 kg per Sqm, as per design)	661.01	Kg	60.30	39858.68
17	10.26 Vol 2 Pg	Providing and fixing Railing of approved size by welding etc. To				
	117	steel ladder railing balcony railing staircase railing and similar				
		works, including applying a priming coat of approved steel				
		primer				
		10.26.1 MS Tube, Boundry wall work three square hollow tubes				
		at top 50 X50 mm size	520.37			
		Total (sqm)	520.37			
		(B) Weight (4.34 kg per Rm, total 3 rows at top	2214.00	Kg	75.60	167378.40
	Daintin -					
18	Painting	Painting Steel work with Deluxe Multi Surface Paint to give an				
10	162	even shade. Two or more coat applied @0.90 ltr/10 sqm over				
	102	an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved				
		brand or manufacture				
		Measurement as above				
		Grill as above	520.37			
		Gate (Area -5.814 sqm)	17.44			
		Total	537.81	sqm	58.50	31461.93
19	13.26 Vol. 2, Pg	Providing and applying 1.5 mm thick (in two coat) white cement				
	159	based wall putty of best quality, over plastered surface to				
		prepare the surface even and smooth complete.				
		Quantity as above in Plaster (External)	1139.15	SqM	73.80	84069.18
20	13.45. Vol. 2, Pg	Finishing walls with textured exterior paint of required shade :		- 1 **		
	161					
		New work (Two or more coats applied @ 3.28 ltr/10 sqm) over				
		and including base coat of water proofing cement paint applied				
		@ 2.20kg/10 sqm.				
		Quantity as above in External Plaster	1139.15	SqM	112.50	128154.24
		TOTAL				35,31,325.54

		ESTIMATE OF LANDSCAPE				
S.No	Item No. / SOR Vol	PARTICULARS	Quantity	UNIT	Reduced Rate As per Order	Amount
1	23.1 MP PWD SOR	Trenching in ordinary soil up to a depth of 60cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly leveling within a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure)	540.00			
			360.00			
			900.00	cum	186.30	167670.00
2	23.2 MP PWD SOR	Supplying and stacking of good earth at site including royalty if any and carnage (earth measured in stacks will be reduced by 20% for payment)	180.00			
			120.00			
			300.00	cum	511.20	153360.00
3	23.3 MP PWD SOR	Supplying and stacking sludge at site including royalty and carriage (sludge measured in stacks will be reduced b 8% for payment)	180.00			
		over for payments	120.00		1	
			300.00	cum	643.50	193050.00
4	23.4 MP PWD SOR	Supplying and stackmg at site dump manure from approved source, including carriage (manure measured in stacks will be reduced by 8% for payment):	180.00			
			120.00			
			300.00	cum	734.40	220320.00
5	23.5 MP PWD SOR	Rough dressing the trenched ground including breaking clods.	900.00			
			600.00			
			1500.00	100 sqm	445.50	6682.50
6	23.6 MP PWD SOR	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	1500.00	100 sqm	151.20	2268.00
7	23.7 MP PWD SOR	Fine dressing the ground	1500.00	100 sqm	113.40	1701.00
8	23.8 MP PWD SOR	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Officer-in-charge (Cost of sludge, dump manure and /or good earth to be paid separately).	180.00	cum	16.20	2916.00
9	23.9 MP PWD SOR	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge				
		Adding the quantity of earth and sludge manure	500.00	cum	10.80	5400.00
10	23.1 MP PWD SOR	Grassing with selected type of grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth. if needed (the good earth shall be paid for separately):				
	l		1500.00			

11	23.13 MP PWD SOR	Preparation of beds for hedging and shrubbery excavating further 30cm deep of already prepared trench, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20%: one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed, within a lead of 50m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately)	80.00	cum	67.50	5400.00
12	23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20%: 1 part of stacked 'volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth. if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately):				
	23.14.2	Holes 60 cm dia, and 60 cm deep.	50.00	each	61.20	3060.00
	23.14.2	holes 45 cm dia, and 45 cm deep.	100.00	each	18.90	1890.00
		,				
13	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture mannuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).				
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants or Equivalent (1.8 mtrs to 2.10 mtrs height.	50.00	each	580.50	29025.00

Hemelia Mini, Lantana varicated, Licoma Redicens, Spi Oala, Golden Dunanta or Equivalent. (height 0.3 m to 0.45m) Any of one from Hibiscus Vice Rai, Gul Phinia, Bamboo Varicated. Chandani Vencated, Hamilia Pattern, Bouganvelia. Canna Red/Yellow, Tagwamonasia or Equivalent. (height 0.3 m to 0.45 m) 23.15.4 Any Of one from Spathodia. Silver Oak, Thuja, Golden Bottle Brush, Exora Red or Equivalent (height 0.45 m to 0.45 m) 23.15.5 Any Of one from Gleroddendron, Allamamala New, Allamanda Bail, Thima Bouganvellia or Equivalent 23.15.7 Foxtail Palm or Equivalent (1.80mtrs to 2.10mtrs 60.00 each 1605.60 96336.00 each height) 23.15.9 Flous Varicated or Equivalent (1.80mtrs to 2.10mtrs 60.00 each 1605.60 96336.00 each height) 23.15.9 Flous Varicated or Equivalent (1.80mtrs to 2.10mtrs 60.00 each 1894.60 44730.00 each height) 15 23.24 Preparation of mounds of various size and shape by available excusveted /supplied earth in layers not exceeding 20 cm in depth, breaking clock, watering of each layer, dressing etc lead upto 50 meter and lift upto 1.5 m complete as per direction Of Officer-in-charge . 16 23.25 Providing Circular Cement Concrete pots of specified size, each vith cement concrete of nominal mix 1:2.4 (1 cament: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos), horizontal and 4 nos, vertical "U" shape) Ms. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge 23.25.1 Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm. 17 In Dilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and		22.45.2	Any of one from Lentone VAD Ded Lentone Divisitely	600.00		20.75	47000 00
0.45m) 0.45m) 7.50m each 48.60 3645.00 Particular Control Private Pall Control Private Pri		23.15.2		600.00	each	29.70	17820.00
23.15.3 Any of one from Hibiscus Vice Ral, Gul Phinia. Bamboo Varicated. Chandani Vencated, Hamilia Pattern, Bouganvellia. Canna Red/Yellow, Taqwamonasis or Equivalent. (height 0.3 m to 0.45 m) 23.15.4 Any of one from Spathodia. Silver Oak, Thuja. Golden Bottle Brush, Exora Red of Equivalent (height 0.45 m to 0.60 m) 0.60 m) 23.15.5 Any Of one from Glerodendron, Allamanala New, Allamanda Ball, Thima Bouganvellia or Equivalent 23.15.7 Foxtail Palm or Equivalent (1.80mtrs to 2.10mtrs Height) 23.15.9 Ficus Varicated or Equivalent (1.80mtrs to 2.10mtrs height) Provident of Equivalent (1.80mtrs to 2.10mtrs height) Provident of Mounds of Various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc lead upto 50 meter and lift upto 1.5 m complete as per direction Of Officer-in-charge . 16 23.25 Providing Circular Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1.22.4 (1 cement 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) Ms. wires of 3.5 mm dia as per disagin, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge . 23.25.1 Din side dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm. 17 17.4 Dilling of perfectly vertical bore hole of a diameter spitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter Ms. 76.1./U.P.V.C. casing pipe upto desired depth below ground level inclusive of the labour charges for transportation, installation and removal of drilling such as transportation, installation and removal of drilling machine etc. complete. 17.4.1 In all types of collapsible strata consisting of soils, dia							
Bottle Brush, Exora Red or Equivalent (height 0.45 m to 0.60 m) 23.15.5 Any Of one from Glerodendron, Allamamala New, Allamanda Bail, Thima Bouganvellia or Equivalent 23.15.7 Foxtail Palm or Equivalent (1.80mtrs to 2.10mtrs 60.00 each 1605.60 96336.00 Height) 23.15.9 Ficus Varicated or Equivalent (1.80mtrs to 2.10 mtrs 50.00 each 894.60 44730.00 height) 15 23.24 Preparation of mounds of various size and shape by available excavated / supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc lead upto 50 meter and lift upto 1.5 m complete as per direction Of Officer-in-charge . 16 23.25 Providing Circular Cement Concrete pots of specificd size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge . 23.25.1 Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm. 17 17.4 Drilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M.S./GI,JUP.P.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete. 17.4.1 in all types of collapsible strata consisting of soils, days, sand, moorum, gravel, boulders etc. 25.00 mtr 386.10 9652.50		23.15.3	Any of one from Hibiscus Vice Rai, Gul Phinia. Bamboo Varicated. Chandani Vencated, Hamilia Pattern, Bouganvellia. Canna Red/Yellow, Taqwamonasia or	75.00	each	48.60	3645.00
Allamanda Bail, Thima Bouganvellia or Equivalent 23.15.7 Foxtail Palm or Equivalent (1.80mtrs to 2.10mtrs 60.00 each 1605.60 96336.00 each Height) 23.15.9 Ficus Varicated or Equivalent (1.80mtrs to 2.10 mtrs 50.00 each 894.60 44730.00 height) 15 23.24 Preparation of mounds of various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc lead upto 50 meter and lift upto 1.5 m complete as per direction Of Officer-in-charge . 16 23.25 Providing Circular Cement Concrete pots of specified size, cast with cement concrete of nominal mix 1:24 (1 cement 2 sand, 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required forw and height, all complete as per direction of Officer-in-charge . 23.25.1 Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm. 17 17.4 Drilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transportation, installation and removal of drilling such as transportation, installation and removal of drilling such as transportation, installation and removal of drilling machine etc. complete.		23.15.4	Bottle Brush, Exora Red or Equivalent (height 0.45 m to	50.00	each	287.10	14355.00
Height Ficus Varicated or Equivalent (1.80mtrs to 2.10 mtrs height) Ficus Varicated or Equivalent (1.80mtrs to 2.10 mtrs height) 50.00 each height) 100.00 137.70 13770.00		23.15.5		150.00	each	86.40	12960.00
height) 15		23.15.7		60.00	each	1605.60	96336.00
MP PWD SOR available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc lead upto 50 meter and lift upto 1.5 m complete as per direction Of Officer-in-charge. 16 23.25 Providing Circular Cement Concrete pots of specificd size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge 23.25.1 Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm. 17 17.4 Drilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M.S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete. 17.4.1 in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc. 17.4.2 in all types of rocks. 25.00 mtr 386.10 9652.50		23.15.9		50.00	each	894.60	44730.00
size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge 23.25.1 Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm. 17 Drilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete. 17.4.1 in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc. 17.4.2 in all types of rocks. 25.00 mtr 386.10 9652.50	15	_	available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc lead upto 50 meter and lift upto	100.00	cum	137.70	13770.00
size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge 23.25.1 Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm. 17 Drilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete. 17.4.1 in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc. 17.4.2 in all types of rocks. 25.00 mtr 386.10 9652.50	16	22.25	Providing Circular Coment Concrete note of specified				
height 35 cm with wall thickness of 25.4 mm. 17 17.4 Drilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete. 17.4.1 in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc. 17.4.2 in all types of rocks. 25.00 mtr 386.10 9652.50	10		size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and				
suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete. 17.4.1 in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc. 17.4.2 in all types of rocks. 25.00 mtr 386.10 9652.50		23.25.1		175.00	each	136.80	23940.00
clays, sand, moorum, gravel, boulders etc.	17	17.4	suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and				
		17.4.1	clays, sand, moorum, gravel, boulders etc.	75.00	mtr	301.50	22612.50
• • • • • • • • • • • • • • • • • • • •		17.4.2	in all types of rocks.	25.00	mtr	386.10	9652.50