

<b>Name of work:-</b> Maintenance work for Civil, Plumbing, Irrigation and sinage work for development of Riverfront Flower Park between Ellis Bridge and Sardar Bridge on west bank of river Sabarmati for sabarmati riverfront development project.			
<b>Employer :</b> SRFDCL			
<b>Sr.No.</b>	<b>Description</b>	<b>UNIT</b>	<b>RATE</b>
<b>A</b>	<b>Civil Works</b>		
1	Filling with selected <b>sand</b> in between the wall and in the trenches of children play area including ramming and compacting, freight, transportation, loading, unloading, screening, passes etc. all complete as per the drawing and as directed by the Engineer	Cmt	686.00
2	Providing and laying of plain cement concrete of <b>P.C.C. M15</b> grade below retaining wall, staircase ,ramp and subway, ghat as per the specifications and as per drawing and as directed by the Engineer in Charge. Rate shall include cost of formwork if any.	Cmt	4,758.00
3	Supplying, erecting, placing, lowering in position by suitable method HYSD (TMT) Fe500 reinforcement confirming to IS 1786 of all categories for retaining wall and staircase, ramp, subway, outlet structure, piles or any structures at all levels including cutting to required length bending, providing hooks if any, overlapping, binding with 18 gauge annealed wires, welding if any laying in position to ensure proper cover specified during concreting etc complete as directed	MT	67,440.00
4	Providing and laying of cement concrete of R.C.C.M25 grade as per the specifications for base slab, grade slab, raft and key of RCC retaining wall, staircase, ramp and subway, for encasing of underground services or any other structures of any shape including curvature as per drawing and as directed by the Engineer in Charge. Rate shall include cost of exposed formwork as per the pattern but exclude cost of reinforcement.	Cmt	6,336.00
5	Providing and laying Bricks masonry works using common burnt clay conventional building bricks confirming to IS 1077-1986 of having crushing strength not less than 50 Kg/cm <sup>2</sup> . In any shape,and curvature, location & all depth, including curing, scaffolding, racking / flush jointing etc. complete, as directed. (For all civil, plumbing & electrical works).		
a	In foundations and plinth, all location and shapes C:M 1:4	Cmt	5,040.00
b	Super structure above plinth for all levels, location, shapes etc. C:M 1:4	Cmt	5,400.00
6	Providing and laying Half brick, 115mm thick masonry using common burnt clay conventional building bricks confirming to IS 1077-1986, having crushing strength not less than 50 Kg/cm <sup>2</sup> , for all floors / all heights / all levels as specified below, in any shape, in any position, in CM 1:4 (1 cement : 4 coarse sand) including curing, scaffolding, etc. complete, as directed including racking out the joints etc. (without reinforcement). RCC M20 grade vertical mullions at 4.5 mt. distance & horizontal stiffeners at every approximately 900 mm with shuttering & reinforcement shall be provided as per drawing at or direction of Engineer in Charge. The stiffeners shall be measured & paid in relevant tender item.	Smt	780.00
7	12 mm thick water proof plaster Providing 12 mm thick water proof Mala cement plaster in single coat on brick/ block masonry or RCC wall, at all heights, finished even and smooth in CM 1:3 (1 cement : 3 sand) including providing and mixing water proofing	Smt	98.00
8	Providing and laying average 20 mm. thick double coat <b>Sand faced cement plaster</b> on walls upto any height above ground level and for all shapes / jambs / soffits, consisting of average 12-15 mm. thick backing coat of CM 1:3(1 cement: 3 coarse sand) and average 6mm to 8mm. thick uniform grained textured finish coat using wooden Gutka, in CM 1:1 (1 cement:1 sand), including scaffolding, forming grooves drip moulds, pattas, hacking RCC surface, curing etc. complete. for all civil, plumbing, electrical & infrastructure works.	Smt.	224.00
9	Providing and fixing Factory made solid both panel PVC door of sintex endura or equivalent make	Smt.	4,134.00

10	Providing & fixing 75mm S.S 316 satin finish baby latch with indicator bolt of occupancy (flat/round) with necessary screws etc. complete as sample approved by Architect (Sample to be approved before mass production/construction/purchase)	No.	562.00
11	Providing and fixing in position frames for aluminum door/composite door-window/window/casement window and aluminum door shutters (sliding/side hung/ pivot) window shutters (sliding/fixed/openable casement), louvers, handles, sections as per drawing.	Kg.	498.00
12	Providing and fixing of 6mm thick Toughened Glass	Smt.	1,606.00
13	Providing and fixing compact sheet of approved make having specified thickness and shade of exterior grade quality in Aluminum frame work with necessary cutting of sheet as per drawing & specifications	Smt.	2,062.00
14	Providing & fixing Narrow stile dead lock with 60 mm pin cylinder of Dorma or equivalent with both side key /one side key -one side knob with one pair of rose for wooden /aluminum doors with necessary SS Phillips head screws etc .complete as per drawing and sample approved by Architect /EIC .Rate shall be for all heights, all floors and all places. (Sample to be approved before mass production /construction/purchase)	Nos	840.00
15	Providing & fixing butt hinge of specific size of specified SS grade brush finish with necessary screws etc. complete of specified make and sample as approved by Engineer in Charge. a) 102 x 76 x 3 mm - with ball Bearing SS 304 grade of Dorma or equivalent	Nos	312.00
16	Providing & fixing 150 mm (minimum rod size shall be 12mm) satin nickel finish brass or SS 304 brush finish C shape rod handles with Tikadi of EPPW or equivalent with necessary screws etc. complete as approved by Engineer-in-charge.	Nos	320.00
17A	Providing and fixing in position, interlocking rolling shutter of approved make, made of 18 gauge, 75mm wide cold rolled MS lath interlocked, including top cover (16 gauge), spring, axles (specially designed shaft), guide rails (10 gauge), tees, iron pulleys, ball bearings, handles, arrangement for inside and outside locking arrangement, with push and pull arrangement (manually operated), holding down bolts embedded in CC 1:2:4 / anchor fastener of HILTI or equivalent including 1 coat of Rustocap and 2 coat of Hi-Gloss Metal PU Paint of Asian paint over all the surfaces etc. as directed. (Measurements considered for payments shall be clear size of opening plus guide channels on both sides for width and 450mm on top for drum height.) (A) Shutters having width below 3.5 mt.	Smt.	6,177.00
17B	having width more than 3.5 m	Smt.	6,795.00

18	<p><b>Structural steel</b> work in riveted, bolted or welded in built up sections, trusses and framed work including supplying, bending in any shape, size and curvature , architectural cutting with moulds or profile cutting as required, fabricating, cutting, assembling, hoisting and fixing in position at all heights of all shapes and size with all leads and lifts of IS1239 grade as per latest IS 4923, IS 1161, IS 806 for the work of Railing, Handrail in staircase and ramps, sleeve pole, garbage box, gates, stands, Street furniture and similar works etc. including cutting and welding the members as per detailed drawing and design. The rate shall include sand blasting, degreasing (wet cleaning) &amp; preparation of rust free surface manually or mechanically, metal putty to make the surface even and smooth, 1 coat of epoxy primer of 50 to 60 micron DFT (dry film thickness) and 2 top coats of Metal PU Paint of having DFT 40 to 50 micron of approved shade of MRF or equivalent paint as per manufacture’s specification over all the surfaces of the steel sections or as specified in the drawing. (Only standard measurements will be paid for as actual cut length used at site). Rate shall be inclusive of cutting (End/edge planing and cutting shall be done by any one of the following prescribed methods or left as rolled (a)Shearing, cropping, sawing, machining, machine flame cutting, (b)Hand flame cutting with subsequent grinding to a smooth edge, (c)Sheared edges of plate not more than 16 mm thick with subsequent grinding to smooth profile, which are for secondary use such as stiffeners and gussets.), wastage, welding, bending (shop at site), and bolting wherever necessary, in position welding of required length, grinding, finishing edges, and filling the welded spots with metal putty. Rate shall be inclusive of 5 years guarantee against corrosion. Rolled steel sections (equal and unequal angles, square or round bars, flats, angles, tees, channels, plates of different sizes etc.), bars ,RHS, SHS, tubular hollow sections of specified thickness &amp; yield strength of TATA , Asian or equivalent as approved by engineer in charge &amp; as per drawing. <b>(Sample to be approved)</b></p>	Kg.	122.00
19	<p>Providing, supplying and fixing heavy duty <b>GI anchor bolt</b> for the fixing of MS railing, hand rail, light pole, display panel, bracket &amp; street furniture element, etc. with injection adhesive (chemical grouting) of HILTI / Fischer or equivalent as approved by the Engineer / Architect for fixing in wet/Dry conditions of following dia. The installation and the setting instructions should be strictly followed as per the manufacturer’s recommendations. The rate shall include making required drilling hole, all labour, scaffolding and other incidentals necessary to complete the work as per the drawing and specification.</p>		
	12 mm dia & 153 mm long	Nos	372.00
20	<p>Providing, and fixing Hilti rebars for with injection adhesive (chemical grouting) of HILTI / Fischer or equivalent as approved by the Engineer / Architect for fixing in wet/Dry conditions of following dia. The installation and the setting instructions should be strictly followed as per the manufacturer’s recommendations. The rate shall include making required drilling hole, all labour, scaffolding and other incidentals necessary to complete the work as per the drawing and specification. The bars will be paid separately under item of reinforcement steel</p>		
a	10 mm dia & 125 mm long	Nos	122.00
b	12 mm dia & 153 mm long	Nos	330.00
c	16 mm dia & 252 mm long	Nos	538.00
21	Supplying & fixing in position rock stone (upto 1.0 tone each) with machanical /hydra etc.	Ton	5,136.00

22	Concrete Benches Providing and laying in position machine batched, machine mixed and machine vibrated design mix fair finish / smooth finish cement concrete of M25 grade for reinforced cement concrete work for cast in situ exposed concrete benches as a street benches including pumping laying of concrete to site by any means like pumping or tower crane, finishing and curing etc. and including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. Rate shall be inclusive of providing grooves, drip moulds, ghisis, pockets, cutouts etc. and labour for insert sleeves if any wherever required while casting. Rate also to include lift charges and scaffolding for all heights / depths from FFL / GL. Rate shall include cost of formwork but exclude cost of reinforcement.	Nos	4,200.00
23A	Providing and laying first quality vitrified tiles in floor of desired finish, pattern, color, size and make as per drawing of scratch hardness 7 on Moh's scale with a density of 2.2 to 2.3 and bonding strength of 250 kg/sqcm, set in cement slurry (3.3 kg. cement/m2.) over a minimum 25 mm. thick cement mortar 1:3 bedding on 20 mm wired finish screed and laid to proper slope and level. Finishing should be done with flush pointing in white cement and pigment with residue and skirting, including curing, polishing and cleaning with mild oxalic acid etc. complete for all floors / all levels/ all heights as shown and specified, for flooring, or channel work etc. all as per specifications and direction of Engineer-in-charge. The rate shall include cost of 25mm cement mortar and 20mm wired finish screed. Size upto 600 mm X 600 mm	Smt.	1,872.00
23B	Any Size and Shape to wall	Smt.	1,944.00
24A	Providing & laying average 30 to 40 mm. thick green polished kota stone of Size upto 600 mm X 600 mm approved quality, selected and sorted for uniform colour for in floor, otta, etc of any shape as per the drawing ,in required following sizes as per design and drawings, including of curvature/wedge and in cement mortar 1:4 bedding of required thickness, joints & pointing as specified, three or more coats of polishing (with oxalic acid) upto mirror finish surfaces with different grades of Emery, curing, daily moping with water & kerosene as directed for at least 15 days or upto the satisfaction of the Engineer-in-charge. The rate shall also include necessary chamfer/ rounding the edge.	Smt.	1,356.00
24B	Size above 600 mm X 600 mm	Smt.	2,040.00
25	Providing & laying sandwich platform / water trough (sandwich of 18 mm thk Granite of approved shade and sample on top and 25 mm thk kota in bottom with 30 mm thk screed of (1:2:4) in between)with sandwich supports of 25 mm thk two kota on sides and screed in between and 75 mm raised platform with kota on top as per design and approved sample for all floors / all levels / all heights. The rate includes rounding, champhering and mirror polishing of edges, facias of granite, including necessary bonding adhesive like Araldite or equivalent. (Only plan area shall be measured and paid for). The rate includes rounding, champhering and mirror polishing of edges. Rate shall be inclusive of making holes & cutouts for SS sink, Oval wash basin, Pillar tap, Bib tap-couplin etc.	Smt.	6,040.00
26	Providing & laying broken white china mosaic flooring for plain and curved surfaces, comprising of 18 mm to 25 mm. size broken pieces of glazed tiles of even colour and shade, laid over cement mortar 1:6 bedding incl. applying cement slurry at the rate of 2.75 kg per sq.m., on plain or sloped surfaces. The flooring shall be tampered to bring the mortar upto the surface, incl. grouting the joints with white cement & rounding of the junctions & extending them upto 15cm along the parapet wall, incl. curing, cleaning with water and oxalic acid etc. complete for all floors / all levels / all heights / all leads / all lifts & all as per specifications & direction of Engineer in charge.. (Plan area shall be measured & paid. No Vata shall be measured).	Smt.	488.00

27A	Providing and fixing 30mm thick Granite of STEEL GREY FLAMED finished/TAN BROWN machine cut for flooring and similar locations of required size of approved shade, colour and texture, of any shape inclusive of wedge / Curvature shape with or without grooves laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand ) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.	Smt.	4,320.00
27B	FLAMED finished Granite of cheemapink / Sadar ali flamed finish	Smt.	4,080.00
28	Providing and fixing VYARA-PEBBLINO or equivalent Tiles 300 x 300 mm with exposed pebbled aggregate great for landscaping and decorative application pabble may be natural or machine made of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with cement, including curing, etc. complete at all levels.	Smt.	3,120.00
29	Providing and laying 100 x 100 x 70 to 80mm thick minimum size rough Granite stone pavers / flooring laid on 20mm ( average ) thick base of cement concrete 1: 6 ( 1 cement : 6 coarse sand ) of approved design/shape including pointing with cement mortar 1:3 ( 1 cement : 3 coarse sand ) with an ad-mixture of pigment to match the shade of stone.	Smt.	2,640.00
30A	Providing & laying average 25 to 40 mm thick machined/hand cut green River wash kota upto size 600 x 600 mm of approved quality, selected and sorted for uniform color & texture, in floor, otta, landing, tread, riser, ramp, channel etc., in following sizes as per design and of any shape inclusive of wedge / Curvature shape with or without grooves Kota stone is to be laid over cement mortar 1:4 bedding of average 20 to 30 mm thickness as per drawing with joints, pointing and finishing and filling the grooves with CM 1:2 as sample approved, including curing and cleaning with wire brush to remove excess cement on the sides of stone up to the satisfaction of the Engineer-in-charge. The rate shall also include necessary chamfer/ rounding the edge	Smt.	2,040.00
30B	In slab thickness any shape and size	Smt.	2,640.00
31	Providing and laying <b>Pavit vitrified tile</b> 100x100x12mm as floor tiles with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc.,	Smt.	1,560.00
32	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of 150 mm thickness of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering , shuttering, finishing and reinforcement . Rate also inclusive of the admixture for colour as per the good for construction drawing also 125 micron PVC liner as per the direction of the engineer incharge the Admixtures will be as per IS9103 to accelerate, retard setting of concrete , improve workability without impairing strength and durability as per direction of Engineer - in charge. M-25 grade reinforced cementconcrete by using 410kg. of cement per cum of concrete. All work up to any floor level.	Smt.	816.00
33	Providing and fixing VYARA square HSF PAVERS or equivalent Non interlocking paver tiles of 60mm thick required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with cement, including curing, etc. complete at all levels.	Smt.	921.00

34	Providing & applying External 100% Acrylic Paint "Apex" of desired shed from Asian paint or equivalent in minimum three coats (first coat with external primer & balance two coat with apex or equivalent paint as per supplier's specification) with brush on exterior sand faced plastered surfaces / mala plastered surfaces with a minimum one coat of external cement based putty of Birla or equivalent at all heights / all floors / all heights & all places including scaffolding to give even shades including thoroughly brushing the surfaces free from mortar dropping and other foreign matter and sand papered smooth etc complete as per the manufacture's specification & to the satisfaction of Engineer in charge Newly plastered surfaces requires minimum three coats -first coat with exterior primer with 1 :1 ratio or as per supplier's specifications & balance coats with with 40% dilution). The rate shall also include the cost of filler for cracks on the surfaces.	Smt	118.00
35	Providing and applying (minimum 3 coats with primer & putty) with oil bound / Acrylic washable distemper of approved manufacturer like Asian, Berger, ICI or equivalent and of approved colour & shade, on newly dry interior plastered surface at all heights / all floors / all levels to give and even shade, including priming coat of primer / cement (water or solvent based) primer and applying required coats (min two coats) of white cement based putty of Birla white or equivalent after thoroughly brushing the surfaces free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth etc., after applying every coat of putty, complete as directed sample to be approved before starting of the work. The rates shall include the cost of filler for filling the cracks on surface.	Smt	84.00
36	Providing & applying External PU Paint of 1 coat of Metal PU Paint of having DFT 40 to 50 micron of approved shade of MRF or Asian Paint or equivalent paint as per manufacture's specification over all the surfaces of the steel sections with brush on exterior surfaces equivalent at all heights / all floors / all heights & all places including scaffolding to give even shades including thoroughly brushing the surfaces and sand papered smooth etc complete as per the manufacture's specification & to the satisfaction of Engineer in charge. The rates shall include the cost of filler for filling the cracks on surface.	Smt.	180.00
37	Supply and Laying 200 micron PVC Sheet.	Smt.	240.00
38	Providing and fixing NON WOVEN GEOTEXTILE (225 gsm) (Width : 5.25m. X Length 100m.) for harvesting drain & pit.	Smt.	480.00
39	Signage		
a	"Sabarmati Flower Garden" Entry Signage - English SS Open Box Letter 3' H x 4" depth with 256 Digital RGB Colour Programing LED, white Acrylic box Letter on top with fitting	Nos	12,000.00
b	"Sabarmati Flower Garden" Gujarati Letter - SS 304 1mm thick Letter 1.5" depth 10" hight with duco colour & Fitting	Nos	1,800.00
c	Garden Map Signage - SS Plate - Grade 304, Brush Finish, 2mm Thickness with Smoothen Corner edges, Acid etching with duco colour, SS Studes 1.5" - 6pcs for fitting & Transportation	Smt.	36,000.00
<b>B</b>	<b>Plumbing Works</b>		
1	Providing and fixing wash down wall mounting EWC-P of approved shade, conforming to Pattern 2 of IS: 2556 (Part -II), with SWR Selfit Soil PVC pipe and plug bend as per specifications; glazed vitreous / Cloured European Water Closet with Cistern (IS-2326), with grouting the CI chair in side the floor/wall, rubber gaskets, connecting PVC 110mm dia soil pipe with PVC coupling, nuts, mounting cistern on WC., and solid verity heavy duty plastic seat cover as per IS-2548, of approved make; cutting and making jari work etc. complete. EWC-P : CERA CLAIR WHITE WALL HUNG EXTENDED 'P' NO.2035 CISTERN : CERA CLAIR WHITE TWIN FLUSH TYPE(5ltr. & 10ltr. flush) NO.2115 SEAT COVER : CERA CLAIR WHITE SOFT CLOSE TYPE NO.2325	Nos	10,800.00

2	Providing & fixing wall Orissapan white W.C PVC pan connector, having all internal fittings complete with rubber buffers, C.P. nuts, bolts, etc making holes in walls floors, & making good. The scope also include providing & fixing of 15 mm C.P. brass bib cocks of best quality.ORISSAPAN :- CERA (OR) 530 X 400MM WHITE NO. 2071	Nos	2,400.00
3	Providing & fixing Floor Mounting type white Anglo Indian type Water closet - 'P' or 'S' trap with half and full flush type low level Cistern of IS: 2556 (Part -II), with trap, Anglo Indian Water Closet -'P'- 'S' : Cera/Parryware/Kholar/Hindware Makes White Floor Mounting Water Closet. approved make., PVC pan connector, seat & lid (heavy duty) C.P. brass hinges, including all internal fittings complete with rubber buffers, C.P. nuts, bolts, etc making holes in walls floors, & making good. Half and Full Flush type Cistern:- Low Level (Ceramic Tank) Cera/Parryware/Kholar/Hindware Makes White Seat Cover : Heavy Duty Cera/Parryware/Kholar/Hindware Makes	Nos	5,160.00
4	Providing and fixing White glazed vitreous Wash Basin Round Table Top , size 450 mm dia., with supporting M.S. or C.I. Brackets, 1 no, 32 mm CP Bottle trap with extension piece to wall flange with rubber adopter for waste connection and waste coupling. comp. etc. ROUND TABLE TOP OVER COUNTER BASIN: CERA CLAIR WHITE NO.1005 Cera/Parryware/Kholar/Hindware Makes	Nos	2,400.00
5	Providing and fixing White glazed vitreous Wash Basin Rectangular wall mounting type , size 550 x 450 mm., with supporting M.S. or C.I. Brackets, 1 no, 32 mm CP Bottle trap with extension piece to wall flange with rubber adopter for waste connection and waste coupling. comp. etc. RECTANGULAR WALL MOUNTING BASIN: CERA CLAIR WHITE NO.1005 Cera/Parryware/Kholar/Hindware Makes	Nos	2,100.00
6	Providing & fixing white vitreous china flat back urinal of size 590x375x390mm as per IS-2556 (Part-2 ) with C.I. hangers and 15mm dia. C.P. spreader,32mm dia CP bottle trap and pipe to wall with C.P. flange complete including cutting and making good the FLAT BACK LARGE URINAL : ( CERA/PARRYWARE/HINDWARE/KHOLAR MAKES) WASTE COUPLING (FULL THREAD)	Nos	2,100.00
7	Providing fixing, testing and commissioning in position 3 RmtSWR PVC PIPE TYPE-B(6Kg/cm2.) self fit pipe conforming to IS:13592 including all fittings such as bends, junctions, inspection doors, offests, cowl, access pieces/plugs etc. jointing with PVC Adhesive joints including cutting holes in walls and making good the same. (Inside TOILET + VERTICAL drops) (Supreme/ Finolex/ Astral Makes)		
	SOIL WATER:-		
a	110 mm dia.	Rmt	384.00
b	75 mm dia. ( Vent Pipe )	Rmt	300.00
8	Providing fixing, testing and commissioning in position 3 Rmt SWR PVC PIPE TYPE-B(6Kg/cm2.) self fit pipe conforming to IS:13592 including all fittings such as bends, junctions, inspection doors, offests, cowl, access pieces/plugs etc. jointing with PVC Adhesive joints including cutting holes in walls and making good the same.		
	110 mm dia.	Rmt	384.00
9	Providing & fixing PVC Floor Trap OR multi floor trap of 75mm dia diameter, with necessary distance piece of 75mm dia pipe and 150x150mm grating, making necessary SLAB /WALLholes and cutting walls, etc complete. (Supreme/ Finolex/ Prince/ Astral Makes)		
a	110mm x 110mm	Nos	1,020.00
b	40 mm dia	Rmt	126.00
10	Providing fixing, testing and commissioning in position 3 RmtSWR PVC PIPE TYPE-B(6Kg/cm2.) self fit pipe conforming to IS:13592 including all fittings such as bends, junctions, inspection doors, offests, cowl, access pieces/plugs etc. jointing with PVC Adhesive joints including cutting holes in walls and making good the same. ( Vertical Drops ) (Supreme/ Finolex/ Astral Makes)		
	RAIN WATER:-		
a	160 mm dia.	Rmt	660.00

11	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes CDR-13.5 class, having thermal stability for hot & cold water supply including all CPVC plain & brass threated fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cemetnt and testing of joints complete as per direction of engineer in charge. (Internal Concealed pipe work ) (Make : Ashirwad. Aiav. Astral)		
a	25 mm dia	Rmt	264.00
b	32 mm dia	Rmt	288.00
c	40 mm dia	Rmt	306.00
d	50 mm dia	Rmt	348.00
12	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) SDR-13.5 Class pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threated fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cemetnt and testing of joints complete as per direction of engineer in charge. ( External open pipeing work ) (Make : Ashirwad. Aiav. Astral)		
a	25 mm dia	Rmt	210.00
b	50 mm dia ( Riser+Vertical Drops+Ring main)	Rmt	534.00
13	Supply, instalation, testing & commissioning of gunmetal, male or female threaded isolation control valve (Wheel Valve), confirming to IS 778, PN 1.0, with necessary specials, union, nipples etc., to complete the job. (For Vertical Shaft Drops Work) ( Zoloto/ R.B./Audco)		
a	40mm dia.	Nos	1,740.00
b	50mm dia.	Nos	2,100.00
14	Supplying, installing, testing & commissioning of 'HDPE' double layer water storage tank including holes for inlet, outlet, overflow, level indicator, drain & vent points, manhole cover, suitable steel supporting structure complete.( Sintex Makes)		
	1000 ltr.	Nos	7,800.00
15	Providing and fixing screw down bib taps of following size.(B)Brass chromium plated screws down Bib Tap. (i) 15mm dia.	Nos	258.00
	(ii) 20mm dia.	Nos	297.00
16	Providing and fixing pillar tap, cap stanhead, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	Nos	424.00
	(ii) 20mm dia.	Nos	489.00
17	BORE WELL :-		
a	"Boring of 200 mm diameter bore & sinking up to 200 mtr depth, Charges for electro logging for tube well, Charges for mud cutting & disposal by Tanker day to day from the site without staking at site, Charges for Cement sealing work if required, Providing, Laying. Testing & Commissioning of 150 mm dia NB MS ERW pipes having minimum 5mm thickness with square face & chaplas confirming to IS-4270 Size: 150mm dia, 150mm Johnson filtration make continuous slotted strainer pipe having minimum tensile strength 18mt collapsible strength: 3 kg/sq. cm in slot opening of 1mm slot opening, 150mm Johnson filtration make continuous slotted strainer pipe having minimum tensile strength 18mt collapsible strength : 3 kg/ sq. cm. in slot opening of 1.5mm slot opening, Cost of bail plug 150 mm dia x 5 mm minimum wall thickness x 5 mt. length with welded cone at the bottom with 55 mm length x 1.5 mm width 2900 Nos. Slot in 3 mt. length of bail plug at the bottom, 150 mm dia. Well cap as per requirement, Supplying, washing and shrouding with approved gravel, the annular gap between the casing pipe and the remaining annular space to be filled in with puddle clay (for which no measurement will be taken and paid for),	Nos	864,000.00



b	Providing, & fixing Bore well submersible pump-motor set for bore of 100mm dia having suitable for 10HP , 3 Phase, 415 V, 50 Hz. motor having following discharge capacity. The pump shall be operated at 2900 RPM. The scope shall also include all required accessories viz. strainer, foot valve, level guard, delivery pressure guage, Standard double length flat submersible cable, float with control cable etc. as per specifications and data sheet Capacity: 120 to 125 LPM Head : 155 to 120m	Nos	36,000.00
<b>C</b>	<b>Irrigation Works</b>		
1	Piping Network  Providing of PVC pipes (IS:4985- 88), and fittings & Accessories like tees, elbows, bends, junctions, Reducers etc; as required/directed at site PVC Pipe 4" Sch 40	Mtr	686.00
a	PVC Pipe 3" Sch 40	Rmt	482.00
b	PVC Pipe 75mm x 10kg/cm2	Rmt	271.00
c	PVC Pipe 63mm x 10kg/cm2	Rmt	189.00
d	PVC Pipe 040mm x 10 kg/cm2	Rmt	82.00
e	RCC Hume Pipe Half Round 3" to 6"	Rmt	204.00
2	Providing of Non-Potable Water Marked Rotary or Spray Pop-up sprinkler 4" (5 to 7 Mtr Redius) with Check Valve, Wiper Seal, Flow Shield complete with required nozzle	Nos	810.00
a	Providing of Swing Joint 1/2" with PP Clamp Saddle with Chromed Nut Bolt & Nitrile Rubber Gasket	Nos	204.00
b	Providing INLINE Drip Pressure Compensating 16mm 18" Spaced 2 to 3.5 LPH, 4 Bar Pressure Rating, 1.2mm Thickness, Brown Color	Rmt	36.00
c	17mm Insert Fittings - Brown Color - Take Off, Elbow, Tees, End Cap	Set	66.00
d	9" Long Lateral Hold Stake - MS Gavanized	Nos	11.00
e	Providing of 16 mm - 4 Bar Pressure Rating, 1.2mm Thickness, LEED Compliance, Brown Color, PE pipe -together with all required accessories.	Rmt	17.00
3	<b>Valves</b>  <b>Providing of Various Valves with required Fittings &amp; Tapping PP Clamp Saddles with Chromed Nut Bolt &amp; Nitrile Rubber Ring</b>  a) Master Valve Diapharm Solenoid Valve Flanged 110mm (4)" PN 10	No.	52,200.00
	b) PVC Ball Valve 63mm PN 16	Nos	1,620.00
	c) 1" Double Acting Air cum Vacum Release Valve with GM Valve	Nos	3,540.00
	d) Lockable Quick Coupling Hydrant valve 1" with Four Sets of Key & Sweilve Elbow	Nos	6,300.00
	e) Rectangular Valve Box 12'	Nos	2,220.00
	f) Round Valve Box 7"	Nos	900.00
	g) Water Meter 4"	Nos	93,600.00
	h) Non Return Valve 4"	Nos	11,400.00
	i) Round Valve Box 10"	Nos	1,080.00
	j) PVC Ball Valve 90mm	Nos	3,300.00
	k) PVC Ball Valve 75mm	Nos	2,820.00
	l) PVC Butter Fly Valve 4"	Nos	9,360.00
4	Automation  Providing Automation Items for Irrigation with all its required accessories.  a) Irrigation Controller 8 to 48 Station, Out Dorr, 230 VAC Unit, Capable of running 4 Independent Programs with Power Back up Lithium Coin-Cell Battery	Set	51,000.00
	b) 2" Solenoid Valve - 2" BSP Female Threaded, Pressure - 1 to 10 Bar	Nos	6,006.00
	c) Double Seathed Direct Barrier Irrigation Automation Cable 1.5 Sq.MM Black	Rmt	24.00

	d) Voltage Stabilizer 1 Kva	Nos	15,000.00
	e) Weather Proof Cable Connection DBY	Nos	180.00
	f) Valve - Pressure Regulating	Nos	3,840.00
5	Filteration Unit Providing Fully Automatic Self Cleaning Filter, Pressure Differential Based, 80/110 Micron, Flanged End & all required Accessories a) Screen Filter Self Cleaning 3" - 40m3	Nos	402,000.00
	b) Header Assembly 4"/ 6 " for Each Filter & Pump saction Made of Galavnized Pipes or PVC Sch 80 Pipe Fittings	Nos	46,200.00
	c) Glyserene Filled Pressure Gauge 2" Dia	Nos	660.00
6	Pump Station - Providing, of VFD Based Pump Station giving flow of 9 lps at 35 m head complete Set (2 working + 1 stand By) with Pressure Tank, Panel & all required accessories.	Nos	460,440.00
7	Excavating, Laying, Joiting & Commissioning PVC Pipes from 50mm OD to 25mm OD, Trench Size minimum 600mm Deep for Main Lines, 300mm to 450mm Deep for Submain Lines, Backfilling with compaction and removing excess soil up to 50m Lead from site. Includes I	Rmt	122.00
a	Providing & Fixing Suitable Thrust Block for Main Line at Bend, Tee etc.	Nos	1,200.00
8	SITC of Gear Drive Pop up Sprinkler 8-12 meter Radius Rotor with Check Valve of Rain Bird / Toro make	Nos	960.00
a	SITC of Swing Joing 3/4" of Rain Bird/Toro make	Nos	156.00
b	SITC of PP Clamp Saddle 3/4" PN 16 of Astore/Cepex make	Nos	90.00
9A	DWC / PE Crossing Sleeve Pipes 6"	Rmt	638.00
9B	DWC / PE Crossing Sleeve Pipes 4"	Rmt	442.00
9C	DWC / PE Crossing Sleeve Pipes 3"	Rmt	355.00
	<b>Mistor work</b>		
1	<b>Piping Network</b>  <b>Providing of PVC pipes (ASTM STANDARD), and fittings &amp; Accessories like tees, elbows, bends, junctions, Reducers with support claim at existing structure etc; as required/directed at site</b> a) PVC Pipe 1.5" Sch 40	Rmt	240.00
	b) LLDPE 16MM X 4KG/CM2	Rmt	120.00
2	Providing of Fogger above hieght 2to8 mtr with support clamp/ wire with 28 LPH discharge at 4kg/cm2 pressure , spray pattern must be in mist form with Check Valve, wight block etc as per required/directed by engineer	Nos	240.00
3	Providing Disc type Filter of 7M3/hr flow with assembly PN -10 with accessories	Nos	10,200.00
4	Providing of Time Base Controller with necessary arrangement as per require/ directed at site	Nos	4,500.00
5	Valves - Providing of Various Valves with required Fittings & Tapping PP Clamp Saddles with Chromed Nut Bolt & Nitrile Rubber Ring a) Diapharm Solenoid Valve Flanged 1" PN 10	Nos	3,900.00
	b) 1" Double Acting Air cum Vacum Release Valve with GM Valve	Nos	3,006.00
	c) Rectangular Valve Box 12'	Nos	2,220.00
	d) Round Valve Box 7"	Nos	900.00
<b>D</b>	<b>Conservatory Dome</b>		
1	Providing and fixing of proflex or equilent Polycarbonet flexiable film of 200 micron for covering of with J or L hooks, bolts, and nuts 8mm dia G.I/plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses.	Smt.	360.00