

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

ESTATE SECTION

Providing, Supplying, Installation, Laying, Testing and Commissioning of irrigation network comprising of Pop-ups, Drip, and Raingun irrigation systems including associated works and five years operation & maintenance at MNIT,Jaipur

PRICE SCHEDULE

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
1	Providing and fixing PVC pipes of socketed at one end for solvent cement weld joint including the cost of solvent cement of required dia and pressure rating confirming to IS 4985 & IS 7834 complete in all.				
1.1	110 mm dia 8 Kg/cm ²	Mtr	840.00		
1.2	110 mm dia 6 Kg/cm ²	Mtr	17064.00		
1.3	90 mm dia 6 Kg/cm ²	Mtr	1158.00		
1.4	75 mm dia 6 Kg/cm ²	Mtr	264.00		
1.5	63 mm dia 6 Kg/cm ²	Mtr	948.00		
1.6	50 mm dia 6 Kg/cm ²	Mtr	1788.00		
1.7	40 mm dia 6 Kg/cm ²	Mtr	528.00		
2	Providing and fixing PE sprinkler pipes with coupler for easy and quick pressure tight, leak proof connection having nitrile seal in standard length and pressure rating conforming to IS 14151 Part 2				
2.1	6.0 Mtr long Pipes of plastic joints of size 75 mm having pressure rating 4.0 Kg/cm ²	Each	106.00		
2.2	3.0 Mtr long Pipes of plastic joints of size 75 mm having pressure rating 4.0 Kg/cm ²	Each	4.00		

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
3	Providing and fixing semi automatic media filter made up of mild steel sheets of epoxy powder coating not less than 50 micron on either surfaces with single automatic back wash system having filter media of silica sand or quartz gravel particles ranging between 1mm to 2mm for 50 cum/hr flow rate and upto 10kg/cm ² pressure rating with single inlet conforming to IS 14606.	Each	2.00		
4	Providing and fixing disc filter of engineering plastic alloy having chemical & weather resistance with drip tight stainless steel clamps for three dimensional filtration for 50 cum/hr flow rate and upto 10kg/cm ² operating pressure with single inlet and twin outlet conforming to IS 12785.	Each	2.00		
5	Providing and fixing semi automatic sand filter made up of mild steel sheets of epoxy powder coating not less than 50 micron on either surfaces with single manual back wash system having filter media of silica sand or quartz gravel particles ranging between 1mm to 2mm for 40 cum/hr flow rate and upto 10kg/cm ² pressure rating with single inlet conforming to IS 14606	Each	1.00		
6	Providing and fixing cast iron non return valve of 100 mm dia conforming to IS	Each	3.00		
7	Providing and fixing cast iron non return valve of 75 mm dia conforming to IS	Each	2.00		
8	Providing and fixing pressure relief metal valve with pressure gauge	Each	3.00		
9	Providing and fixing extruded tubes of virgin low linear density polyethylene pipes of of class II rating including the cost of tube take off, gormmet, connector, joiner, end cap etc. conforming to IS 13488				
9.1	16mm dia	Mtr	27600.00		
10	Providing and fixing openable type dripper made up of virgein plastic with manufacturing variation coefficient not more than 3% for discharge of 4.0 liter per hour. conforming to IS 13487	Each	17000.00		

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
11	Providing and fixing extruded seamless tubes made up of high grade virgin plastic for discharge of 4.0 Liter per hour with 60 cm dripper spacing.				
11.1	16 mm nominal dia with 0.70 mm wall thickness	Mtr	1000.00		
12	Providing and fixing 10 cm long popup sprinkler with 6 nos. of nozzels made up of heavy duty plastic alloy with tool free arc adustable diffuser screw controls and sand free seal suitable 3.0 kg/cm ² pressure range with radius ranging from 8.5m to 11.5m. conforming to IS 12232	Each	250.00		
13	Providing and fixing 30 cm long swing joint male connector of 3/4" size.	Each	250.00		
14	Providing and fixing PVC service saddle including fasteners complete.				
14.1	90 mm long with 3/4" - Heavy Duty	Each	3.00		
14.2	75 mm long with 3/4" - Heavy Duty	Each	12.00		
14.3	63 mm long with 3/4" - Heavy Duty	Each	55.00		
14.4	50 mm long with 3/4" - Heavy Duty	Each	146.00		
15	Providing and fixing heavy duty composite part circle medium volume rain gun of 12 mm nozzle for working pressure range 3.00 Kg/cm ² with adjustable jet breaker for radius upto 32.00 mtr.	Each	6.00		
16	Providing & fixing quick coupling valve made up of brass having high pressure rubber seal				
16.1	dia 1.5" female.	Each	36.00		
16.2	dia 1.0" female	Each	230.00		
17	Providing quick coupling key made up of brass having high pressure rubber seal				
17.1	dia 1.5" male	Each	6.00		
17.2	dia 1.0" male	Each	25.00		

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
18	Providing & fixing female pump connector having 75mm thread made up of vergin HDPE material with clamp of moulded engineering plastic having nitrile seal suitable for high pressure upto 4.0 kg/cm ² .	Each	6.00		
19	Providing & fixing male pump connector having 75mm thread made up of vergin HDPE material with clamp of moulded engineering plastic having nitrile seal suitable for high pressure upto 4.0 kg/cm ² .	Each	6.00		
20	Providing and fixing gun metal gate valve with MS control wheel of 1.50 " dia.	Each	6.00		
21	Providing and fixing rain gun riser stand having 4 nos of legs made up from G.I. pipes of 40mm dia upto 1.50m length.	Each	6.00		
22	Providing and fixing butter fly valve of made up of metal with compact double union design having chemical resistant nitrile rubber rings				
22.1	65 mm nominal dia	Each	5.00		
22.2	80 mm nominal dia	Each	3.00		
22.3	100 mm nominal dia	Each	9.00		
23	Providing and fixing continous acting air release valve made of made up of rigid PVC compound for working pressure upto 10.0 kg/cm ² of 25mm dia.	Each	30.00		
24	Providing and fixing air release valve assembly with out air valve made up of rigid PVC compound of size 1"x110 mm.	Each	30.00		
25	Providing and fixing ball valve made up of rigid PVC compound with teflon seal of size 40mm.	Each	120.00		
26	Providing and fixing flush valve made up of rigid PVC compound with teflon seal of size 63 mm.	Each	1.00		
27	Providing and fixing flush valve made up of rigid PVC compound with teflon seal of size 40 mm.	Each	120.00		

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
28	Providing and fixing rugged reinforced plastic valve box with snap fit lock of size 250mm.	Each	17.00		
29	SITC of ISI mark(IS:8472) self priming monoblock pump set of approved make, TEFC, permanent split capacitor type (PSC), fitted with thermal overload protection, mechanical seal, 1440/1500 RPM, single phase(180 to 240 V). Including cost of hardware etc on existing platform complete. Pump shall have following HP Rating, phase, Head, minimum Discharge respectively. (Kirlosker, Texmo, Crompton, Taro, Siemens, ABB, Varuna, Duke , Lubi, Ujala,Falcon, Unnati, Oswal)				
	Self priming pumps				
29.1	20 HP, 3-Ø, (65-75)Mtr, (650)LPM	Each	3.00		
29.2	15 HP, 3-Ø, (60-75)Mtr, (600)LPM	Each	2.00		
29.3	10 HP, 3-Ø, (50)Mtr, (75-90)LPM	Each	1.00		
30	Supply and fixing of Oil / Air break Starter panel made out of sheet steel powder coated enclosure comprising of over load protection relay, short circuit & single phasing protection, ON / OFF push buttons, ammeter, voltmeter, indicating lamps etc. complete in all respect suitable for following rating motors. (L&T, Siemens, ABB, BCH, Jyoti, Schneider, C & S, Millborn)				
	For Three phase Submersible / Mono block pump				
30.1	10 HP to 15 HP (Star / Delta)	Each	3.00		
30.2	20.0 HP to 25.0 HP (Star / Delta)	Each	3.00		
31	Supply and fixing of Oil / Air break Feeder panel made out of sheet steel powder coated enclosure comprising of over load protection relay, short circuit & single phasing protection, ON / OFF push buttons, ammeter, voltmeter, indicating lamps etc. complete in all respect suitable for following rating motors. (L&T, Siemens, ABB, BCH, Jyoti, Schneider, C & S, Millborn) as per design and requirement				

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
		Each	1.00		
32	Providing and fixing 8 station module metal cabinet expandable upto 48 stations	Each	2.00		
33	Providing and fixing 4 station module for adding stations to base contrler.	Each	1.00		
34	Providing and fixing electrically/ hydraulically actuated solenoid control vlaves made of virgin plastic material, pressure capacity 10 kg/cm2,having solvent glued/ threaded/ flanged end connection of 2" size.	Each	3.00		
35	Providing and fixing electrically/ hydraulically actuated solenoid control vlaves made of virgin plastic material, pressure capacity 10 kg/cm2,having solvent glued/ threaded/ flanged end connection of 2.5" size.	Each	1.00		
36	Providing and fixing electrically/ hydraulically actuated solenoid control vlaves made of virgin plastic material, pressure capacity 10 kg/cm2,having solvent glued/ threaded/ flanged end connection of 3" size.	Each	6.00		
37	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required.				
37.1	1 x 1.5 sq.mm	Mtr.	200.00		
37.2	1 x 2.5 sq.mm	Mtr.	3900.00		
37.3	1 x 4.0 sq.mm	Mtr.	1200.00		
37.4	2 x 2.5 sq.mm, Gr.I	Mtr.	1600.00		
38	Providing and fixing star/delta timer 24-240 volt AC	Each	2.00		
39	Providing and fixing toggle switch	Each	2.00		
40	Providing and fixing AC voltage stbiliser 230in-230out.	Each	2.00		

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
41	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
41.1	All kinds of soil.				
41.1.1	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Mtr	25000.00		
42	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
42.1	All kinds of soil	Cum	15.00		
43	Random rubble masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) up to plinth level with :				
43.1	Cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	12.00		
44	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
44.1	1:5:10 (1 cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size)	Cum	5.00		
45	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	15.00		
46	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete				

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
46.1	Hot finished welded type tubes	Kg	1500.00		
47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.				
47.1	2 mm thick flat	Sqm	50.00		
48	Operation & Maintenance of complete irrigation system including electric equipments after commissioning & handing over to the client including cost of providing operator , periodical checking of the system cleaning,oiling, greasing, routing maintenance, necessary, safety arrangements & consumables as per direction of Engineer-in-charge. This shall include all cost involved in maintenance except for electricity for operation, which shall be provided by the client department free of cost. At least two operators should be engaged regularly on maintenance work.	Per Month	60.00		
49	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
49.1	In cement mortar	Cum	15.00		
50	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	Sqm	100.00		

S.NO	Description	Unit	Qty.	Rates in Rs (Figures & Words)	Amount
51	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	Sqm	125.00		
52	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 50 metres, stacking serviceable and unserviceable materials separately as directed by Engineer.				
52.1	Bitumenous courses	Cum	5.00		
52.2	Granular courses	Cum	25.00		
53	Providing and fixing electro magnetic digital flow meter.	Each	15.00		
	TOTAL				

Seal & Signature of bidder

Address & Phone No.