S. No.	Item Description	Unit	Qty
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1	Galvanized Iron (GI) Pipe		
	Supply, installation, testing, and commissioning of		
	medium-class galvanized iron (GI) pipes conforming to		
	IS:1239 (Part 1) or equivalent, with socketed ends and		
	screwed/threaded joints using approved pipe fittings.		
1.1	DN 150	Mtr	1400
1.2	DN 100	Mtr	540
1.3	DN 80	Mtr	260
1.4	DN 65	Mtr	1200
1.5	DN 50	Mtr	1100
1.6	DN 40	Mtr	4700
1.7	DN 25	Mtr	200
2	Irrigation Sprinkler System		
	Supply and installation of impact-type/rotor-type		
	irrigation sprinklers, model HT-05P or approved		
	equivalent, with throw radius 10.8 m (180° and 90°		
	patterns) and micro-sprinklers with 3 m throw for		
	localized areas. Sprinklers shall operate at a minimum of		
	3.0 bar pressure and have a flow rate of approximately		
	14.76 LPM.		
2.1	Sprinkler 360°, Radius of throw 10.8 m	Nos	316
2.2	Sprinkler 180°, Radius of throw 10.8 m	Nos	59
2.3	Sprinkler 90°, Radius of throw 10.8 m	Nos	5
2.4	Sprinkler 180°, Radius of throw 3 m	Nos	41
3	Brass Gate Valve		
	Supply, installation, and testing of heavy-duty brass gate		
	valves conforming to IS:778 or equivalent, with screwed		
	ends for low/medium pressure applications. Valves shall		
	have a non-rising stem, full bore, and handwheel		
	operation, suitable for isolation of irrigation zones.		
	Size DN 40	Nos	33
4	Y-Strainer		
т	Supply and installation of Y-type strainer with cast		
	brass/bronze body and stainless-steel mesh screen,		
	complete with threaded ends to match pipework.		
	Strainer shall be installed upstream of zone valves to		
	protect sprinklers from debris, with a removable screen		
	for easy cleaning.		
	Size DN 40	Nos	33
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	IRRIGATION SYSTEM - BOQ				
S. No.	Item Description	Unit	Qty		
5	Air Vent				
	Supply and installation of 40 mm diameter automatic air				
	release valve suitable for irrigation applications. Unit				
	shall be designed to release trapped air during system				
	filling and operation, with corrosion-resistant body and				
	float, and installed at system as indicated in the				
	drawings.				
	Size DN 40	Nos	33		
6	Backflow Preventer				
	Supply and installation of backflow prevention device				
	(double check valve assembly or reduced pressure zone				
	assembly as per IS/ASME standards) to prevent reverse				
	flow of water from irrigation system to the potable				
	supply.				
	Size DN 150	Nos	1		
7	Gate Valve (Pump Discharge)				
	Supply, installation, and testing of flanged-end gate				
	valve, 6-inch nominal bore, PN16 pressure rating, cast				
	iron/ductile iron body with non-rising stem and				
	handwheel operation, installed on pump discharge line				
	for isolation purposes.				
	Size DN 150	Nos	1		
8	Check Valve (Pump Discharge)				
	Supply, installation, and testing of flanged-end swing				
	check valve, 6-inch nominal bore, PN16 pressure rating,				
	cast iron/ductile iron body with bronze seat, installed on				
	pump discharge line to prevent reverse flow when				
	pump is stopped.				
	Size DN 150	Nos	1		
9	Openwell Submersible Pump				
1	Supply, installation, testing, and commissioning of Lubi				
	LHS-40 openwell submersible pump, size 65 × 50 mm,				
	rated flow 22.5 LPS (1350 LPM) at rated head of 68 m,				
	with motor power 22 kW / 30 HP, 415 V, 3-phase, 50 Hz,				
	maximum current 50 A, and speed 2900 RPM. Pump				
	shall be provided complete with suitable base, discharge	Set	1		
	piping connection, non-return valve, and gate valve on				
	discharge line.				
	Configuration: 1 duty + 1 standby arrangement, each				
	pump capable of delivering the full system demand.				
	partip capable of delivering the full system demand.				