

Schedule-B

Name of Work :- SITC of Industrial Water Softener Plant For PMSSY Building in Sir T. Hospital Campus at Bhavnagar

| Sr. No. | MR | Item Description | Qty. | Unit | Rate (Without GST) | Rate (In word) | Total Amount Rs. |
|---------|----|--|------|------|--------------------|-------------------------------------|------------------|
| 1 | MR | <p>Soft Water Palnt: Supply, Installation, testing and Commissioning of Soft Water Palnt, having following Technical Parameters:</p> <p>Raw Water Total Hardness: 600 - 700 PPM. Plant Requirement: <150 PPM</p> <p>A. Multi Grde Filter: FRP Vessle, having Diameter 24" and Height 72". The Media Qty. must be equal to or more than 450 kg. The required system pressure sholud be 3.5 - 4.0 kg/cm2</p> <p>B. Softener: FRP Vessle, having Diameter 24" and Height 72", having Multi-Port Valve Facility with Manual operation system for Product, Regenaration, back-wash and other required facility. The qty. of Resin must be equal to or more than 450 Litrs. The OBR (Output between Regeneration) must be 40,000 Litres, with a required system pressure of 3.5 - 4.0 kg/cm2</p> <p>C. Salt Tank with Agitator: PVC Tank of Double Layer, having a capacity of 500 Litres.</p> <p>D. Raw Water Pump: Monoblock Pump-sets (1 Working, 1 Stand-by), having SS Body, SS Impeller, with following capacity: Head: 15 m., Flow-Rate: 4000 Lit/Hr., with required system pressure of 3.5 - 4.0 kg/cm2</p> <p>E. Micro cartridge Filter: The Housing should be of UPVC or ABS. The Crtridge should be of PP Spun, having filtration capacity of 5 Micron.</p> <p>F. Soft water Test Kit: The Company Recommended Test Kits - 2 Kits - should be supplied, with all necessary instructions of usage.</p> | 1.0 | Job | 700000.00 | Rupees Seven Lakh Only | 700000.00 |
| 2 | MR | Softener Storage Tank: SITC of PVC Double-Layer Tank, having a Vertical Arrangement. The Tank should have a facility of its lockable cover. The Tank should have a storage capacity of 2000 Litres. | 2.0 | Ea | 15000.00 | Rupees Fifteen Thousand Only | 30000.00 |
| 3 | MR | Piping with necessary Valves: The Piping from Raw Water Tank / Inlet of Raw Water to the Softener Storage tank with HDPE Pipe lines should be provided. All necessary Valves for Product, Drainage upto Room Drain and By-pass facility (In case of Plant failure)must be provided. | 1.0 | Job | 20000.00 | Rupees Twenty Thousand Only | 20000.00 |
| 4 | MR | Liquid Level Controller: The System must work on LLC (Liquid Level Controller) Base. The Pump / Plant should Start and Stop automatically as per the level sensors inside the Softener Storage Tank. | 1.0 | Job | 10000.00 | Rupees Ten Thousand Only | 10000.00 |
| 5 | MR | Metal Fabricated Shade: • Structure of angle pipes of 3mm thickness size covered with Corrugated tin sheets on side walls from ground upto 3 ft of height and further with mesh grills for ventilation and covering roof with tin sheets. Size:- 1444 Sq.Ft | 1.0 | Job | 260000.00 | Rupees Two Lakh Sixty thousand Only | 260000.00 |

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| 6 | MR | Operation and Maintenance after completion of One Year Defect Liability period: The Maintenance of Soft Water Plant must be as per the guidelines of Plant Manufacturer. (Guideline-Industrial water softener plant maintenance requires regular monitoring of salt levels (weekly/monthly), inspecting for salt bridges and cleaning the brine tank (every 3-6 months) to ensure optimal ion exchange efficiency. Key tasks include testing water hardness regularly, cleaning or replacing resin beds as per Requirement and professional annual service to prevent scaling and ensure long-term, efficient operation. Ensure the brine tank is at least half full; refill with high-quality salt to avoid bridging. Procurement of High Quality Salt Should Be in the scope of Agency. Check for hardened salt crusts in the brine tank and break them up to ensure proper brine draw, Test water hardness at the outlet to ensure the system is operating efficiently. Check pipes, valves, and tanks for corrosion or leaks. If installed, replace pre-filters every 3-6 months to prevent sediment buildup. Clean the tank every 3-6 months (or annually) by removing, scrubbing, and rinsing to remove sludge and sediment. Use a specialized resin cleaner every 6-12 months to remove iron, manganese, and sediment buildup that reduces efficiency. Clean or replace the injector and venturi system to maintain proper suction for brine drawing. Perform a professional service annually to inspect control valves, seals, and recalibrate settings.)The Media inside Multi-Grade Filter must be washed / replaced in case of lesser water flow and Higher System Pressure. The Resins inside the Softener must be replaced after every 2 Years of operation. The Monoblock Pump-sets should be serviced after every 6 months operation. For 1st Year of Maintenance after One Year Defect Liability period | 1.0 | Job | 100000.00 | Rupees One Lakh Only | 100000.00 |
| 7 | MR | For 2nd Year of Operation and Maintenance after One Year Defect Liability period | 1.0 | Job | 100000.00 | Rupees One Lakh Only | 100000.00 |
| 8 | MR | For 3rd Year of Operation and Maintenance after One Year Defect Liability period | 1.0 | Job | 100000.00 | Rupees One Lakh Only | 100000.00 |
| 9 | MR | For 4th Year of Operation and Maintenance after One Year Defect Liability period | 1.0 | Job | 100000.00 | Rupees One Lakh Only | 100000.00 |
| 10 | MR | For 5th Year of Operation and Maintenance after One Year Defect Liability period | 1.0 | Job | 100000.00 | Rupees One Lakh Only | 100000.00 |
| Estimate Total (Without GST) | | | | | | | 1520000.00 |

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