

FINANCIAL BID

Name of Work: Repairing & Servicing of Solar Water Heating System installed at Central University of Rajasthan

NIT No. : CURAJ/R/F.138/2022/1492 dtd 22.07.2022

Item No.	Description of Item	T/Qty.	Unit	Rate	Amount
1	Repairing & Servicing of Solar Water Heater System i/c replacement of gaskets, nut bolt, cladding wool, welding work, cleaning and descaling of the system by suitable chemical, i/c repair of Solar Water tank/plate structure with welding touching, repair/replacement of nitrile rubber kits washer & bidding, checking necessary wiring, checking the leakage in collector & pipe, copper tube brazing, repairing of discharge tank and testing the system etc complete as required and as per standard practice.				
1.1	Capacity 1000 Ltr	44	Nos		
1.2	Capacity 500 Ltr	13	Nos		
2	Supplying & replacement of following item in the existing Solar water heater system during repair & servicing of solar water heater system etc complete as required (Note: Labour Cost already included in Item 1)				
2.1	Gun Metal/Bronze NRV valve 20/25 mm	25	Nos		
2.2	Ball Valve 20/25 mm	25	Nos		
2.3	Toughend Glass for Solar Heater Collector Plate	50	Sq.mt.		
2.4	Heating Elements (suitable for 500/1000 ltr. Solar Water Heating System) with thermostate & copper nickel plating.	25	Nos		
3	Providing & fixing of insulation on following item with Glass Wool along with accessories, to withstand a temperature of 100 degree celsius duly cladded with aluminium sheet etc as per standard practice, as required complete in all respect.				
3.1	Solar Water Tank (22 SWG Al Sheet)	50	Sq.mt.		
3.2	GI Pipe (26 SWG Al Sheet)	400	RMT		
4	Providing and replacement of SS-304 Insulated Hot water storage pressurised tank of 2.5 Kg pressure capacity 1000 ltrs. with necessary manhole of 18" insulated with 100mm thick glasswool insulation covered with chicken mesh, Polythene lining with 22SWG aluminum cladding with necessary stands, supports, with Temperature gauge from 0-120°C, Air relief valve. With Coil Type Heat Exchanger to exchange heat energy between solar panels & Solar Hot Water Tank to prevent scale formation in collectors i/c insallation testing and commissioning of new tank complete etc as required.	4	Nos		
5	Providing and replacement of SS-304 Insulated Hot water storage pressurised tank of 2.5 Kg pressure capacity 500 ltrs. with necessary manhole of 18" insulated with 100mm thick glasswool insulation covered with chicken mesh, Polythene lining with 22SWG aluminum cladding with necessary stands, supports, with Temperature gauge from 0-120°C, Air relief valve. With Coil Type Heat Exchanger to exchange heat energy between solar panels & Solar Hot Water Tank to prevent scale formation in collectors i/c insallation testing and commissioning of new tank complete etc as required.	2	Nos		

6	Supplying and replacement of ISI marked Solar Flat Plate each of area 2 m ² with 10 nos. Ultra sonic welded Cu-Cu Fin & Tubes for high efficiency with necessary rubber EPDM gaskets with nut & bolts, rubber gasket for flanges C-Clamps etc. and the efficiency should be more than 72%. Size of collector: suitable for existing setup of Inter/Tata Make of capacity 500/1000 ltr.	15	Nos		
7	Supply, replacement, testing and commissioning of solar collector panel of ETC type, size suitable for existing setup (Make-Inter/Tata) capacity 500 ltr, collector made of copper tube etc. as required i/c dismantling & refixing of the existing panel.	50	Tube		
8	Supplying and fixing of water tight polycarbonate Cable Junction Box as used in street light pole box of suitable size i/c terminals, din bar, mounting plate, nutbolts, clamps, necessary wiring, connections, etc as reqd. at site.	25	Nos		
9	Providing, laying, testing & commissioning of GI pipe (B Class) with GI Fitting and clamps (exposed on wall/floor) i/c cutting and making the wall/floor good the same as reqd for supplying of water, complete in all respect. Size 20/25mm	250	Mtr		
10	Supply, replacement, testing and commissioning of makeup tank of suitable capacity equivalent to existing one of SS 304 with necessary inlets, outlets of suitable size with necessary strainer at inlet, Isolation valves at inlet & outlet and fixing to existing M.S. stands supports etc., as reqd at site	5	Nos		
11	Shifting & reinstallation of 500/1000 Ltr Capacity Solar Water Heating System with MS frame/ support system along with reqd accessories for making system functional with testing commissioning etc as reqd at site and as per directions of Engineer-In-Charge	1	Job		
	Total Amount (in Rs.) incl. GST=A				
12	Credit the cost of following material i/c dismantling charges				
12.1	Gun Metal/Bronze NRV valve 20/25 mm	25	Nos		
12.2	Ball Valve 20/25 mm	25	Nos		
12.3	Heating Elements	50	Nos		
12.4	GI Pipe	30	Kg		
12.5	1000 ltr SS 304 solar water heater storage tank	5	Nos		
12.6	500 ltr SS 304 solar water heater storage tank	2	Nos		
12.7	Solar heater plate	15	Nos		
12.8	Junction box i/c accessories	45	Nos		
12.9	SS 304 make up tank	5	Nos		
	Sub Amount (in Rs.)=B				
	Net Amount (A-B) in all charges, taxes, freight etc				