

PART – II

FINANCIAL BID

ITEM RATE TENDER

FOR

SOLAR WATER HEATING WORK OF SARAGARHI

AT

SRI AMRITSAR

DECEMBER 2015

BILL OF QUANTITIES

NAME OF WORK:- SARAI BUILDING AT SARAGHARI.

S.No.	DSR No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	NS	SOLAR PANEL				
1.1		Supply installations, testing and commissioning of 12000 LPD capacity solar water heating system comprising of ISI marked solar Flat Plate Collector of appropriate size of fin and tube (technical data to be submitted to mention the calculation of number of solar panels being given) , copper solar absorption panels with toughened solar glass covering and Rockwool insulation, interconnecting supply and return headers, M.S. Pressurized insulated hot water tank, Plate type Heat Exchangers of required surface area with necessary pumps for recirculation of water in primary and secondary circuit with necessary control panel etc.				
	1	Flat Plate Collector Fin and tube Type of appropriate size (technical data to be submitted to mention the calculation of number of solar panels being given) ISI marked of ANY make the manufacturer quoting must have a minimum annual turnover of 50 crores to be eligible to quote . With necessary M.S. painted stands, support etc. please quote number of panels and size here: panels _____ No. of each Panel _____ Size of	LOT	1		
	2	Hot water storage tank : Hot water mixing tank of 12000 liters capacity of fabricated out of 10mm thick plate dished end and 8 mm thick MS plate shell complete with 90 KW Electric Back up with inlet cold water, inlet/outlet , drain connector, with flanges, manhole with nut bolts including valves, pressure gauge, dial type, thermometer, pressure relief valve complete in all respects. The tank shall be duly insulated with 100 thick FGP/ mineral wool insulation with 22 gauge aluminium cladding to withstand pressure upto 10kg/sqr.cm with MS supporting structure, with access ladder upto manhole duly painted with red oxide				
	3	Heat Exchanger :	Set	1		

	4core x 4mm2		Metre	80	
	3core x 2mm2		Metre	60	
6(a)	Providing and fixing, G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls and floors and excavation and back filling wherever necessary etc. complete.				
	Ø For 25mm nominal bore		Metre	40	
	Ø For 32mm nominal bore		Metre	50	
	Ø For 40mm nominal bore		Metre	90	
	Ø For 50mm nominal bore		Metre	30	
	Ø For 65mm nominal bore		Metre	30	
6(b)	Providing and fixing materials for painting of exposed pipes with two or more coats of synthetic enamel paint of approved shade as per pipe color code including painting of legends in English script with direction arrows.				
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	Ø 25mm dia		Metre	20	
	Ø 32mm dia		Metre	RO	
	Ø 40mm dia		Metre	RO	
	Ø 50mm dia		Metre		
	Ø 65mm dia		Metre	30	
	Ø 80mm dia		Metre	30	
	Ø 100mm dia		Metre	30	
6(c)	Providing and fixing insulation for hot water pipelng (Externally) with resin bounded mineral wool of density 48kg/m3 of 50mm thickness, including cleaning of pipes, securely fixing of insulation to the pipes with all joints bolted together tightly and stitching with 24 SWG G.I wire mesh netting over the insulation and cladding with 24 gauge aluminium sheets with 50mm overlap and fixing with self tapping recessed screws complete as per requirement				
	Ø For 25mm dia		Metre	40	
	Ø For 32mm dia		Metre	50	
	Ø For 40mm dia		Metre	90	
	Ø For 50mm dia		Metre	30	
	Ø For 65mm dia		Metre	24	
7	Providing and fixing of butterfly valve tested to non-shock cold working pressure upto 20kg/Sq.cm equivalent to I.S:778-1971class-II. (equivalent ball valve is also acceptable)				
	Ø For 25mm nominal bore		No.	2	
PLUMBING SYSTEM					

