

# Purchase Requisition

PR NO : 1003972551		PR DATE : 16.12.2021		Store : P014		MRP Controller : 100				
SI No	Material No	Material Description	Net Qty	Proc Unit	Rate	Value	Curr	Pur Group	Dly Date	Long Text
1	BEMLPA1440	ETC TYPE SOLAR WATER HEATER - 350 LPD	2.000	NO	51500	1,03,000.00	INR	PM4	16.03.2022	X

## Material PO Text

Technical Specification for ETC type Solar water heater

Item Description Supply, Installation & Commissioning of ETC

type Solar water heater

Quantity 2 Nos

"SI.

No" Parameter Requirement

1 Eligibility criteria The firm shall submit 3 nos of Satisfactory performance certificate from the customer for supply & installation of similar type of Solar water heater with in last 5 years for acceptance of offer.

2 Make & Model MNRE approved model. The firm shall submit relevant document as a proof.

3 Type of Solar water heater ETC type Solar water heater

4 Heating capacity 350 +/- 10 LPD

5 ETC tube 3 layered Borosilicate coated tubes

6 ETC tube coating Cu/AIN/AIN-SS

7 ETC tube glass thickness Minimum 1.6 mm

8 Type of Tank Insulated hot water storage tank

9 Inner tank & Outer tank material Minimum SS-304/ SS-316 grade

10 Supporting structure MS frame support with one coat of primer & 2 coats Anti corrosive painting OR suitable Aluminium supporting frame .

Thickness of sheets shall be strong enough to avoid any deformation of the support.

11 Insulation material for Hot water tank/Pipe line of solar water heater CFC free Poly Urethane Form (PUF)

12 Back up heater 1 No of ISI marked, 2KW, 240V AC, 50Hz operated, push type heater coil. Weather proof covering shall be provided for heater coil connection terminals.

13 Back up heater control Thermostat control

14 Fasteners used Stainless steel

15 Warranty The firm shall offer minimum 5 years warranty for the complete product and installation work from the date of commissioning.

16 Installation & commissioning The firm shall depute their service engineers to install the Solar water heater at our Guest house

# Purchase Requisition

<b>PR NO : 1003972551</b>	<b>PR DATE : 16.12.2021</b>	<b>Store : P014</b>	<b>MRP Controller : 100</b>
<p>terrace with necessary piping works. The firm shall commission the Solar water heater to the satisfaction of BEML Ltd</p> <p>17 Input water to Solar water heater BEML will provide 1500/ 2000L HDPE cylindrical water storage tank installed at a height of 1 meter from floor level. The firm shall design and install the supporting structure &amp; tank of Solar water heater in such a way that water shall flow to Solar water tank in normal gravity flow.</p> <p>18 Input pipe line connection for Solar water heater For input water supply, the firm shall take necessary UPVC pipe line connection from existing 1500/ 2000L HDPE cylindrical water storage tank using UPVC ball valve, air vent pipe &amp; other UPVC pipe accessories.</p> <p>19 Output pipe line connections for Solar water heater The output pipe line of Solar water heater shall be connected to existing CPVC pipe line near to the tank using CPVC ball valve, air vent pipe &amp; other CPVC pipe accessories.</p> <p>20 Civil works Any minor civil works like grouting, cement concreting etc for the installation of Solar water heater is under the scope of the firm. The firm shall support the frame of Solar water heater to withstand high wind velocity in Palakkad region.</p> <p><b>LPP</b> : 0</p> <p><b>PO No</b> :</p> <p><b>PO Date</b> :</p>			

Purchase Requisition

PR NO : 1003972551	PR DATE : 16.12.2021	Store : P014	MRP Controller : 100
--------------------	----------------------	--------------	----------------------

ANNEXURE - I

Purchase Requisition

PR NO : 1003972551	PR DATE : 16.12.2021	Store : P014	MRP Controller : 100
--------------------	----------------------	--------------	----------------------

ANNEXURE II

Unplanned Services covering :

SI No	Contract No	Item No	Item Description	Limit	No Limit
-------	-------------	---------	------------------	-------	----------