

### **Claim and Clarification under Metric ID 7.1.3**

**The Institution has facilities for alternate sources of energy and energy conservation devices**

1. Solar energy
2. Wheeling to the Grid
3. Sensor based energy conservation
4. Biogas plant
5. Use of LED bulbs/ power efficient equipment

DVV Submitted	DVV NC	Response
<b>HEI input:</b> All of the above  <b>DVV suggested input:</b> Any one of the above.  <b>Change input:</b> All of the above.	<p>The HEI has attached only 01 photograph of solar panels. No invoice for the same provided. The HEI must provide captioned Geotagged photographs of the facility of Solar energy as alternate sources of energy, attested by the principal. The HEI to provide installation photographs of the solar plant along with the Array DC Disconnect, Inverter and the Battery Pack. HEI to provide copy of the invoice and installation report signed by the principal. The HEI to provide the HEI policy on energy conservation and details of the measures adopted under the policy. The HEI to provide Geo-tagged photograph of the Biogas plant and Sensor-based energy conservation system.</p>	<p>The reconciled consolidated statement of HEI Inputs with claims towards all the five resources available, duly attested by Principal &amp; Dean is submitted for kind consideration of DVV.</p> <ol style="list-style-type: none"> <li>1. The HEI is submitting the <b>policy on energy conservation</b> duly signed by the principal.</li> <li>2. <b>Solar water heating systems, model hybrid solar and wind power generator and twenty KW Solar Power plant</b> are available in the campus. The HEI is submitting the <b>Invoice and installation photographs</b> of the solar plant along with the <b>Inverter and the Battery Pack</b>.</li> <li>3. The total annual requirement of power of the campus is 122 Lakhs KWH, out of which, 63 Lakhs units are supplied from M/s. ASP company through <b>wheeling to the</b></li> </ol>



		<p><b>grid. The HEI is submitting the agreement copy and the document showing the power saved through wheeling to the grid</b></p> <p><b>4. Sensor based energy conservation is in the form of automatic lighting and sensor based flush system in the hospital. The bills of the same and video of sensor-based lighting of rest room in the college are enclosed.</b></p> <p><b>5. Biogas facility is set up by Mailhem engineers PVT LTD, Pune and it uses organic kitchen waste. The photographs of Biogas plant are being submitted by the HEI.</b></p> <p><b>6. The whole medical college and hospitals have power efficient LED installation. The HEI is submitting the bills and consolidated expenditure towards LED in the campus.</b></p>
--	--	--

*Medha*  
PRINCIPAL AND DEAN  
M.S. Ramaiah Medical College  
& Teaching Hospital  
Bangalore - 560 054



## INDEX PAGE

*The Institution has facilities for alternate sources of energy and energy conservation devices*

1. Solar energy
2. Wheeling to the Grid
3. Sensor based energy conservation
4. Biogas plant
5. Use of LED bulbs/ power efficient equipment

### Response of HEI:

The HEI has verified the observations of the DVV, and the following submissions are made for the kind perusal of the DVV.

- 1) As required by the DVV, the **Energy Conservation Policy document (1a)**. The HEI is submitting the DVV in excel format as per the NAAC manual guidelines **(1b)**. The HEI is also submitting the PDF format duly signed by the principal as document **1c**.
- 2) The HEI is submitting the following regarding **Solar Energy: geotagged photographs (2a), hybrid solar wind project report (2b), purchase Order, installation reports, invoices, relevant pages of the stock register, certificate of amount spent, , technical report (2c)**.
- 3) The HEI is submitting the **document** related to “Wheeling to the Grid”, the **MOU with Atria energy services pvt ltd (3a)** for solar plant supply and **savings** due to the same **(3b)** duly signed by the head of the institution.
- 4) The HEI is submitting the **geotagged photos of sensor based flush (4a), waterless urinals (4b), video for Sensor based lighting of the rest room (4c) of the college and the bills for the same (4d)**.
- 5) The HEI is submitting the geotagged photographs with caption regarding **Biogas Plant as document 5**.
- 6) The following **Documents** are submitted by the **HEI for LED lighting: The geotagged photographs (6a) and bills (6b), certificate of amount spent (6c)**.
- 7) The HEI is submitting **the relevant information** under this metric as **document 7**.



### List of Documents and links as per HEI Response for metric id 7.1.3:

Serial Number	Name of the document	Link
1 a	Policy on energy conservation and measures attested by the principal	<a href="#">View document</a>
1b	Excel template as per DVV	<a href="#">View document</a>
1c	Attested PDF of the template	<a href="#">View document</a>
2	<b>Solar Energy</b>	
2a	Geotagged/signed photos of the solar facility in the campus	<a href="#">View document</a>
2b	Attested copy of the hybrid solar wind project report	<a href="#">View document</a>
2c	Document showing invoice, installation report, commissioning and invoice for sale of solar power	<a href="#">View document</a>
	<b>Wheeling to the grid</b>	
3a	Attested copy of the MOU with Atria energy services for solar power plant	<a href="#">View document</a>
3b	Abstract showing savings through wheeling to the grid	<a href="#">View document</a>
4	<b>Sensor based energy conservation</b>	
4a	Geotagged photo of sensor based flush system in the hospital	<a href="#">View document</a>
4b	Geotagged photos of waterless urinals at MH	<a href="#">View document</a>

4c	Video showing automatic sensor-based lighting of rest rooms in the college	<a href="#">View document</a>
4d	Attested copy of amount spent for sensor-based rest rooms at RMC	<a href="#">View document</a>
	<b>Biogas plant</b>	
5	Geotagged photo showing biogas plant in the campus	<a href="#">View document</a>
6	<b>LED</b>	
6a	Attested geotagged photo showing the LED lights on the divider over Rajmarg	<a href="#">View document</a>
6b	Budget extract showing purchase and expenditure towards LED in the campus	<a href="#">View document</a>
6c	Consolidated document of expenditure towards LED	<a href="#">View document</a>
7	Relevant information regarding the metric 7.1.3	<a href="#">View document</a>