



*Anand Charitable Sanstha, Ashti's*  
**Anandrao Dhonde Alias Babaji Mahavidyalaya,**  
**(Arts, Commerce and Science)**  
*Kada, Tal. Ashti. Dist. Beed 414 202 (Maharashtra)*

## **Criteria VII**

### **7.1.3 Energy Audit**

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## ENERGY AUDIT REPORT

Organization	ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA, ( ARTS, COMMERCE & SCIENCE)			IC REF.NO.	IC/PE/7178	
Address	AT.:KADA, TALUKA: ASHTI, DIST. : BEED, - 414202 MAHARASHTRA, INDIA			AUDIT TYPE	ON SITE	
Contact Person	MR. DR. H. G. VIDHATE	POSITION	PRINCIPAL	Site(s)	01	
Audit Standard	ENERGY AUDIT					
SR.LEAD AUDITOR	MR. SUHAS GOLE	No.of Shifts	GENERAL			
Audit start Date /DAY	02.05.2022/MONDAY	No of Employees	0-75			
Audit Completion Date/DAY	02.05.2022/MONDAY	Total Man day	01	Complexity	HIGH	
E mail D	<a href="mailto:dr.vidhate@yahoo.com">dr.vidhate@yahoo.com</a> , <a href="mailto:sajangaikwad68@gmail.com">sajangaikwad68@gmail.com</a>					
Website	<a href="http://www.admkada.com">www.admkada.com</a>					
No. of CARs	CAT I	00	CAT II	00	CAT III (surv ONLY)	00
Audit Conclusion and Recommendation :						
1.AREAS ASSESSED : ALL THE AREA AS PER CHECKLIST IN THE REPORT 2.AUDIT CONCLUSION & APPROPRIATENESS OF THE SCOPE :DETAILED IN THE SCOPE.THE SCOPE IS ENERGY AUDIT						



<b>Audit type</b>	Energy audit
<b>Auditee institution</b>	Anandrao Dhonde alias Babaji Mahavidyalaya, kada

SN	Topic	Description
1.	Areas covered	<ul style="list-style-type: none"> <li>a. The main building</li> <li>b. Area surrounding main building</li> <li>c. The classrooms</li> <li>d. The staffrooms</li> <li>e. The restrooms</li> <li>f. The reading room</li> <li>g. The dining room</li> </ul>
2.	Audit scope	<ul style="list-style-type: none"> <li>a. To conduct the energy audit</li> <li>b. To enlist the observations in brief</li> <li>c. To enlist the recommendations</li> <li>d. To draw the audit conclusion</li> <li>e. To present the audit observations and audit conclusion to the institution</li> <li>f. To address and resolve queries of the auditees</li> </ul>
3.	Audit conclusion	<ul style="list-style-type: none"> <li>a. Current status of energy management is satisfactory.</li> <li>b. The quality of energy management could be improved.</li> <li>c. The audit recommendations may be followed in a time-bound manner for to achieve the same.</li> </ul>
4.	Executive summary	<ul style="list-style-type: none"> <li>a. Audit of one man-day duration was conducted on 2<sup>nd</sup> May, 2022 to assess the implementation of energy management system on the campus.</li> <li>b. Current status of energy management system was assessed using agreed methodology.</li> <li>c. Available documents and records were verified and reviewed.</li> <li>d. Relevant suggestions with respect to documented information and its execution were given and discussed.</li> <li>e. Round of constructed buildings campus and surrounding was taken an observations thereon noted.</li> <li>f.</li> </ul>


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		The top management and key staff members were interviewed individually and jointly. g. The institution-staff was apprised of the audit outcome.
5.	<b>Audit objective</b>	The audit was conducted as a part of requirement of continuation of NAC accreditation discipline and requirement.
6.	<b>About the auditee institution</b>	a. Name : Anandrao Dhonde alias Babaji Mahavidyalaya b. Head : Dr. Haridas Gopinath Vidhate, Principal c. Phone no. : 02441239621 d. Mobile no. : 9423060708 e. Email address : admkada@gmail.com f. Address : Post : kada Taluka : Ashti Dist : Beed State : Maharashtra Pin : 414202 g. Instruction : Co-education h. Location : Rural i. Financial status : Grant-in-aid j. Affiliation : Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra
7.	<b>Audit methodology</b>	a. Verification and revise of internal and external documented information. b. Observations of activities and surrounding. c. Interaction with the personnel as well as interviewing the personnel.
8.	<b>Audit observations</b>	a. Current energy sources are mainly atste electricity supply corporation and solar installations

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		<ul style="list-style-type: none"> <li>b. A diesel generation set is used as an emergency backup.</li> <li>c. Air conditioners user are star-rated.</li> <li>d. A plan exists for cleaning illumination related installations. The plan is implemented.</li> <li>e. The power factor is being well maintained.</li> <li>f. Guidelines exist for efficient use of computers, printers etc.</li> <li>g. Illumination and illumination related devises are monitored for optimization.</li> <li>h. List detailing location wise electricity consuming devices is available.</li> <li>i. The state board electricity consumption is tracked regularly.</li> <li>j. Switch-off drills are planned and conducted regularly.</li> </ul>
9.	<b>Audit recommendations</b>	<ul style="list-style-type: none"> <li>a. The bio-gas project may be planned and implemented.</li> <li>b. Stack height of DG set may be calculated as per legal requirements and maintained.</li> <li>c. Cleaning schedule with respect to illumination installations may be reviewed and records maintained.</li> <li>d. Cleaning schedule with respect to solar installations may be reviewed and records maintained.</li> <li>e. Guidelines for efficient used of computers, printers etc. may be controlled.</li> <li>f. Automatic illumination optimization sensors may be installed.</li> <li>g. Location-wise list of electrical consumption devices may be controlled and periodically updated (as applicable).</li> <li>h. Energy policy may be documented and communicated to the concerned.</li> <li>i. Energy management related specific, quantitative, time-bound objectives may be taken.</li> <li>j. The energy management objective achievement plan maybe documented for each objective.</li> <li>k. Solar panel installation expansion may be planned and implemented.</li> <li>l. Energy management system related international standards may be implemented e.g. ISO 50001-2019</li> <li>m.</li> </ul>

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		<p>E-waste management SOP may be documented and followed.</p> <p>n. Carbon-footprint related study may be conducted and recommendations implemented.</p> <p>o. Periodic energy-consumption pattern may be monitored, energy usage measured, analyzed to improve the pattern.</p>
10.	List of photographs	<p>a. DG Set Stack</p> <p>b. LED Bulbs</p> <p>c. Solar Panel</p> <p>d. Energy Saving Suggestion</p> <p>e. Latest MSEB Bill</p> <p>f. Electricity Meter</p> <p>g. Power factor Record</p> <p>h. Guidelines for Efficient use of Computers and printers</p> <p>i. Solar installation cleaning</p> <p>j. Star rating Certificate</p>
11.		<p>a . DG Set Stack</p>  <p>Latitude: 18.900193  Longitude: 75.085023  Elevation: 598.82±11 m  Accuracy: 2300.0 m  Time: 10-09-2022 11:14  Note: Diesel Generator  in Anandrao Dhonde college, Kada</p> <p>Powered by NotCam</p>

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**B . LED BULB**



**C. Solar Panel**

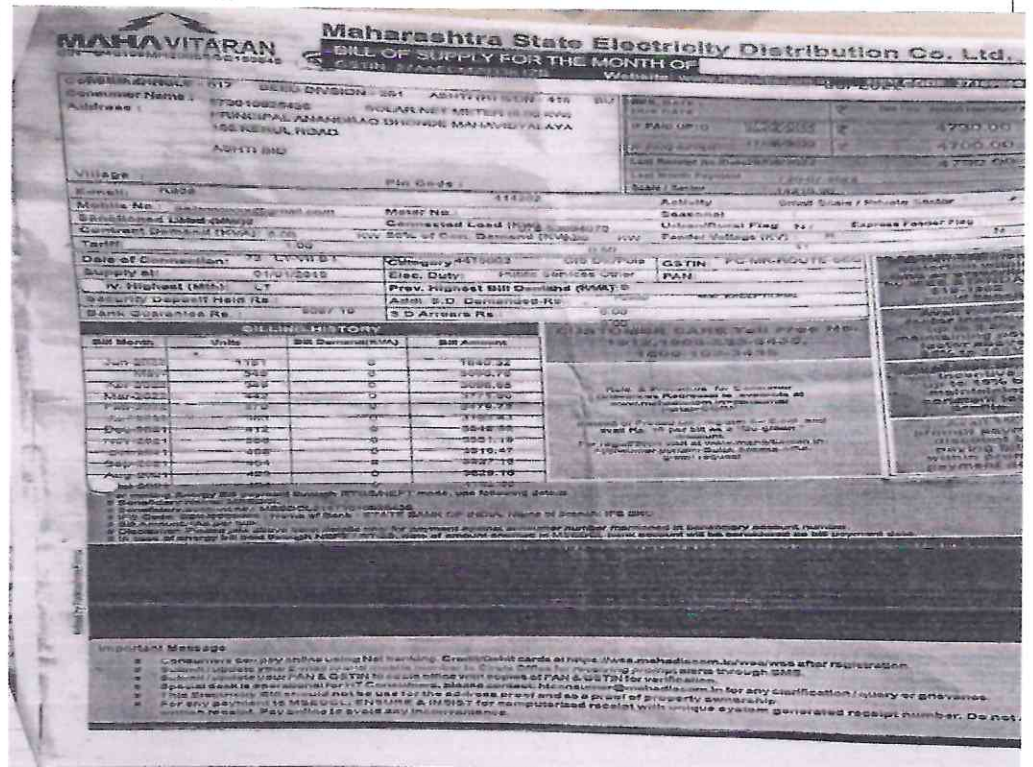


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D. Energy Saving Suggestion

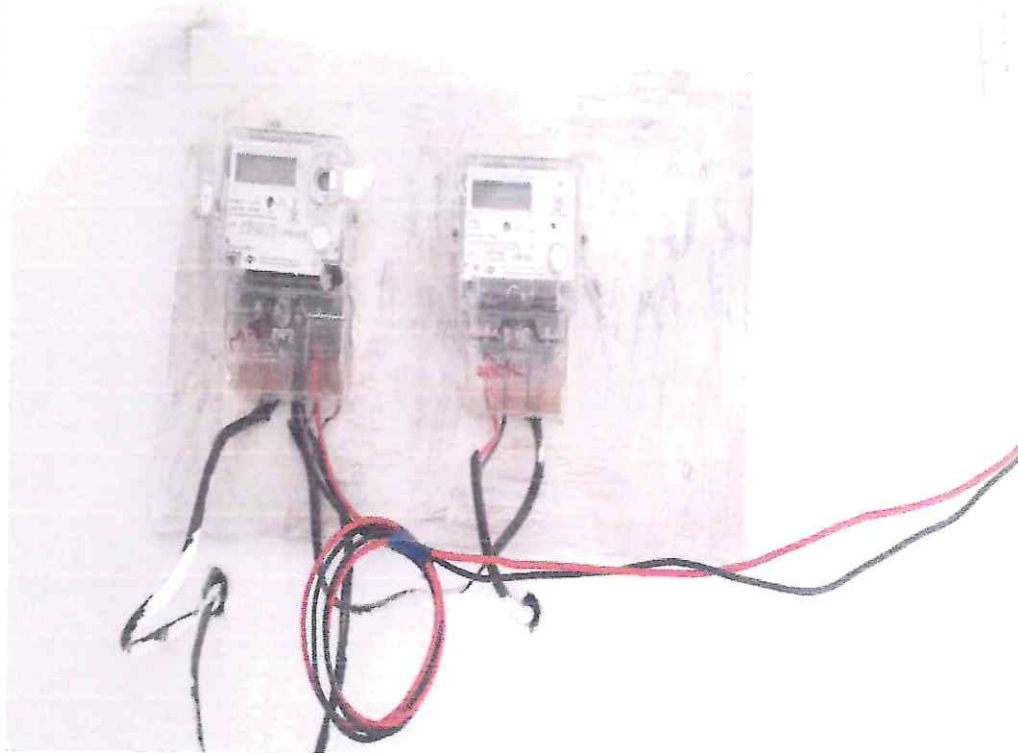



E. Latest MSEB Bill






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	<p>F. Electricity Meter    MSEB METER                      SOLAR METER</p> 
	<p>G. Power factor Record</p> 

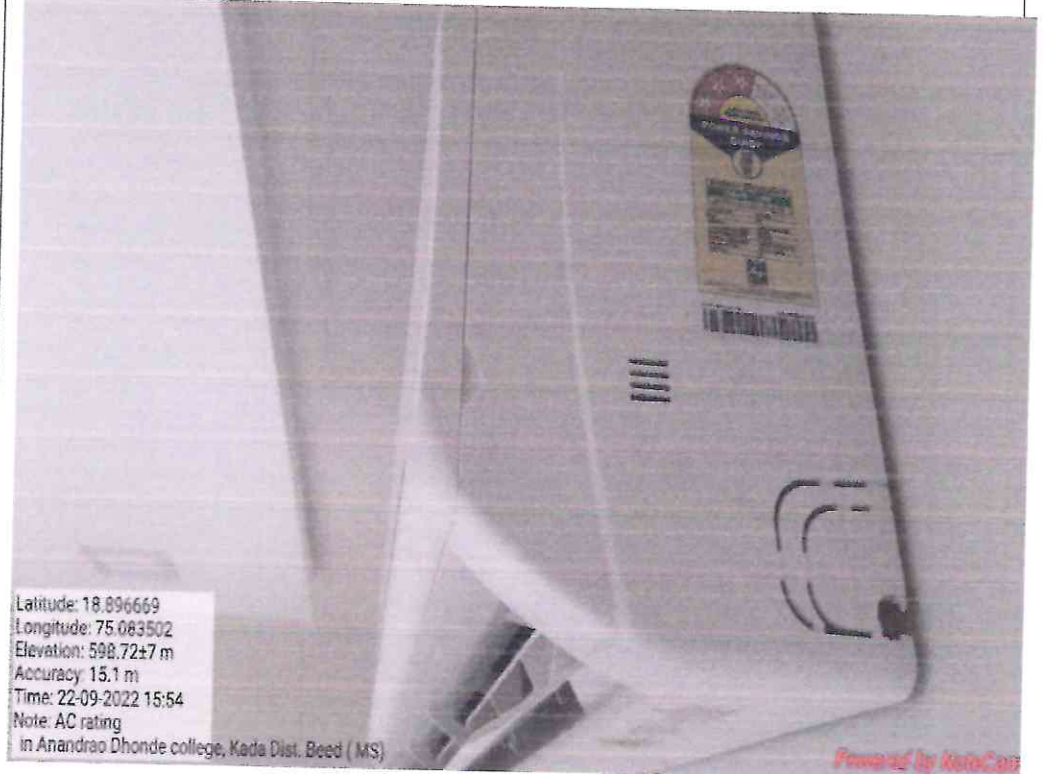
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		 <p><b>DO'S AND DON'TS</b></p> <p><b>ROUTINE CHECK POINT</b></p> <p><b>1. LUBE OIL</b> Check the oil level regularly and top up as necessary. Use the recommended oil grade.</p> <p><b>2. BATTERY</b> Check the battery terminals for corrosion and clean them if necessary. Ensure the battery is fully charged.</p> <p><b>3. AIR CLEANER</b> Check the air filter regularly and replace it if it is dirty or clogged.</p> <p><b>4. BATTERY</b> Check the battery level regularly and top up as necessary. Use the recommended battery type.</p> <p><b>5. WASHING SYSTEM</b> Check the washing system regularly and clean it if necessary. Use the recommended washing solution.</p>
		H. Guidelines for Efficient use of Computers and printers
		Solar Installation cleaning

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**J. Star rating Certificate**



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Electricity Saving Programmes



11.CONCLUSION :THE COLLEGE HAS ALREADY DONE CONSTRUCTIVE WORK ON GREEN TECHNOLOGY AND HIGHLY COMMITTED TO CONTINUALLY IMPROVE UPON.IT IS RECOMMENDED,THAT ANANDRAO DHONDE ALIAS BABAJI MAHAVIDYALAYA,KADA HAS SUCCESSFULLY COMPLETED ENERGY AUDIT CRITERIA.

17.PHOTOGRAPHS OF ENERGY CONSCIOUSNESS :THE PHOTOGRAPHS COVERED ARE, SOLAR ENERGY SYSTEM, ALTERNATIVE SOURCES OF ENERGY, GENERATOR, INVERTERS,STABILIZERS, ENERGY SAVING BOARDS, GOOGLE EARTH LOCATION,BEFORE-AFTER ENERGY BILLS ETC. PHOTOGRAPHS, IMPROVENTS PLAN.ACHIEVEMENTS,TRAINING'S,PIE-CHART,TRENDS,GRAPHS,BAR CHARTS, DATE, ,CELEBRATION DAYS, YOU ARE IN FREE ZONE,SIGN BOARDS,SLOGANS,& LIKE.....

NOTE : MUST APPLY FOR ISO 14001:2015 EMS CERTIFICATION

<p>Team Leader</p>	  <p>SUHAS GOLE</p>	<p>Date</p>	<p>07.05.2022</p>
<p>Client representative</p>	 <p>PRINCIPAL  Anandrao Dhonde Alias Babaji Mahavidyalaya  Kada Tal. Ashti, Dist. Beed</p>	<p>Date</p>	<p>07.05.2022</p>

