



LATE. TULSABAI BAHUDDSHIYA SHIKSHAN SANSTHA, TUMSAR

ART'S COLLEGE, SIHORA

Tah. Tumsar, Dist. Bhandara (441912)

(Affiliated to R.T.M. Nagpur University, Nagpur)

E-Mail : artscollegesihora@rediffmail.com,
principalacsihora@gmail.com

Ph. No. 07183 239788/299100

Website : www.acsihora.org

Criteria 7.1.3	Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following 1. Green audit / Environment audit 2. Energy audit 3. Clean and green campus initiatives 4. Beyond the campus environmental promotion activities
Findings of DVV	Please provide the documents of Auditing from Government / Govt. recognized organizations, University departments, recognized / certified non-profit NGOs
Response / Clarification	The documents of Energy Audit from Government Agency (Certified by MSEB) is attached.



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The Document of Auditing from Government Organisation, Certified by Maharashtra Stste Electricity Board



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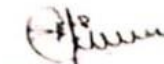
Website : www.acsihora.org

• Total Power Requirement

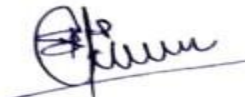
1. Computer :-	$4 \times 100 \text{ w} = 400 \text{ w}$	
	$\frac{400 \times 2 \text{ hrs} \times 365}{1000}$	= 292 kwh
2. Thumb Machine :-	$\frac{1 \times 1 \text{ w} \times 24 \text{ hrs} \times 365}{1000}$	
	$\frac{8760 \text{ w}}{1000}$	= 8.76 kwh
3. RO :-	$\frac{10 \text{ w} \times 24 \text{ hrs} \times 365}{1000}$	= 87.6 kwh
4. CCTVT :-	$\frac{1 \times 1 \text{ w} \times 7 \times 24 \text{ hrs} \times 365}{1000}$	= 61.32
5. 0.5 HP Motor :-	$\frac{400 \text{ w} \times 1 \text{ hrs} \times 365}{1000} = 146 \text{ kwh}$	
	$[146 / 4 (15 \text{ min.})]$	= 36.5 kwh
6. Fan :-	$\frac{29 \times 60 \times 5 \text{ hrs} \times 365}{1000}$	= 3175.5 kwh
Total Power Requirement =		<u>3574.08</u>


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कक्षाध्यक्ष आचार्यता
म.रा.वि.वि.क.मर्वा
सिहोरा-२


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- Annual Lighting Power LED Bulb

$$\begin{aligned} 344 \text{ w} &= 344 \text{ w} \\ 344 \text{ w} \times 5 \text{ hrs.} &= 1720 \text{ w per day} \\ 1720 \text{ w per day} \times 365 &= 627800 \text{ w per year} \\ &= 627800 / 1000 \\ &= 327.8 \text{ kwh} \end{aligned}$$

- Total Lighting Power CFL + SIMPLE LIGHT

CFL + Simple Tube

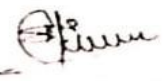
$$\begin{aligned} 18 \text{ w} \times 365 \times 5 \text{ hrs.} &= 32850 \text{ w} \\ &= 32850 \text{ w} / 1000 \\ &= 32.85 \text{ kwh} \end{aligned}$$

Percentage of Annual Lighting requirements met through LED Bulbs

$$\begin{aligned} &= 627.8 \text{ kwh} / 627.8 \text{ kwh} + 32.85 \text{ kwh} \times 100 \\ &= 627.8 \text{ kwh} / 660.65 \text{ kwh} \times 100 \\ &= 95.02 \% \end{aligned}$$


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